

FIG. 1

FIG. 2

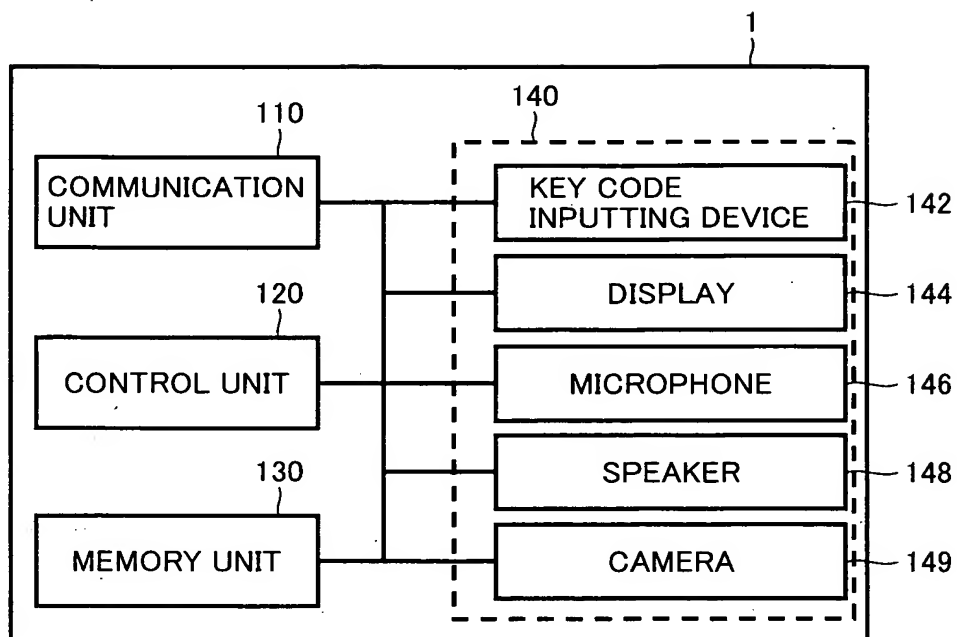


FIG.3

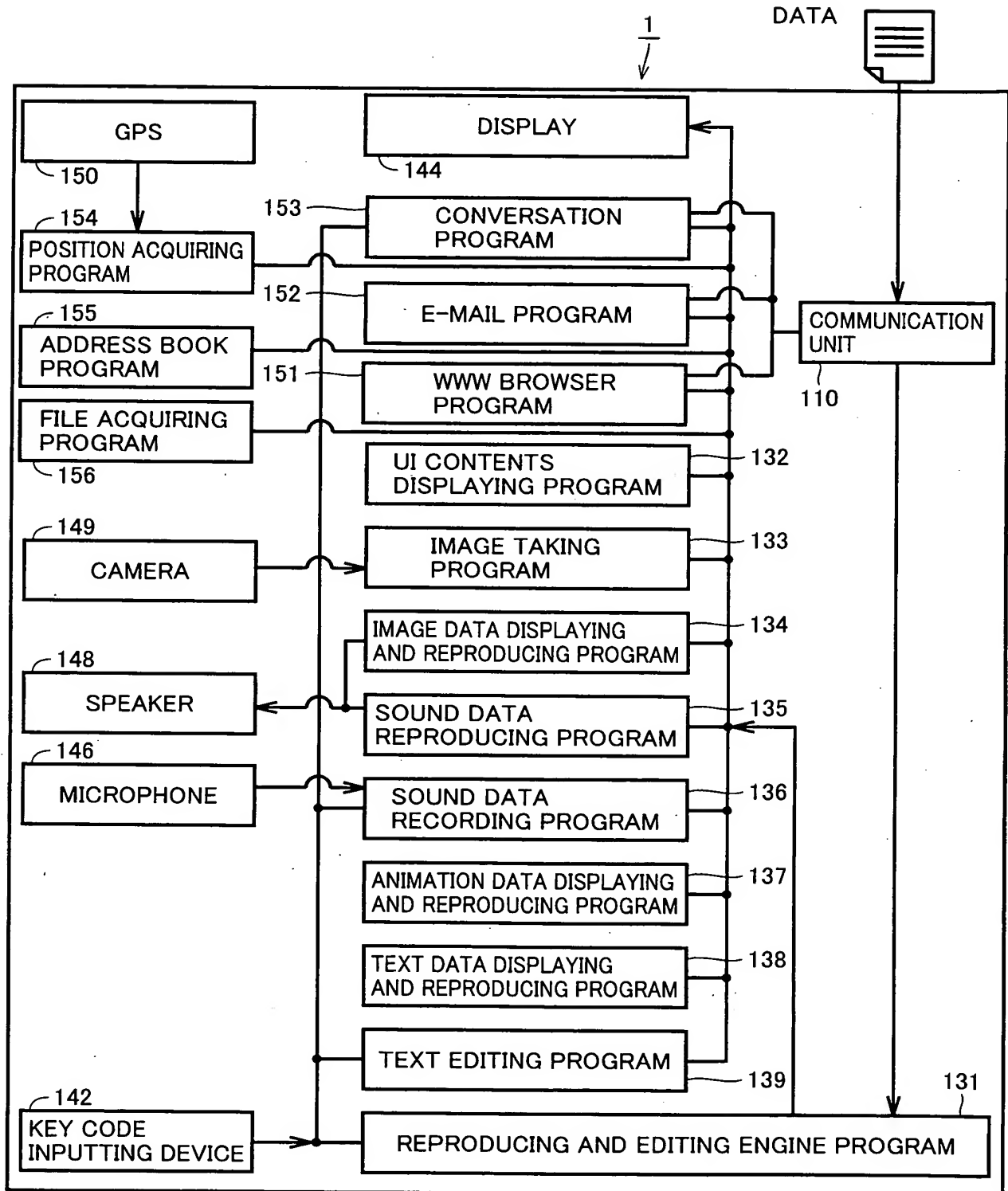


FIG.4

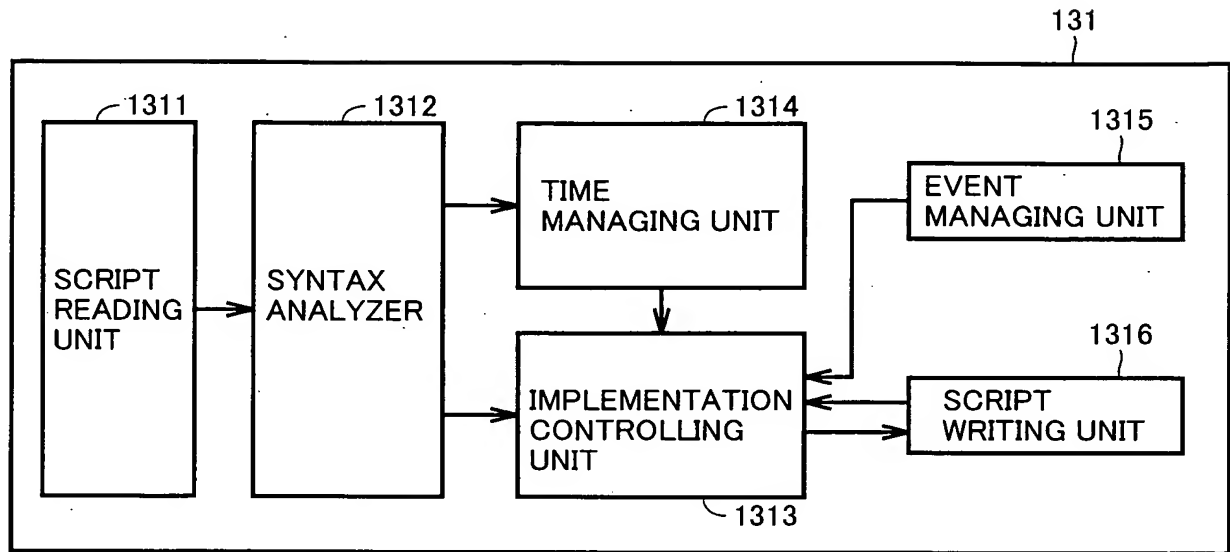


FIG.5

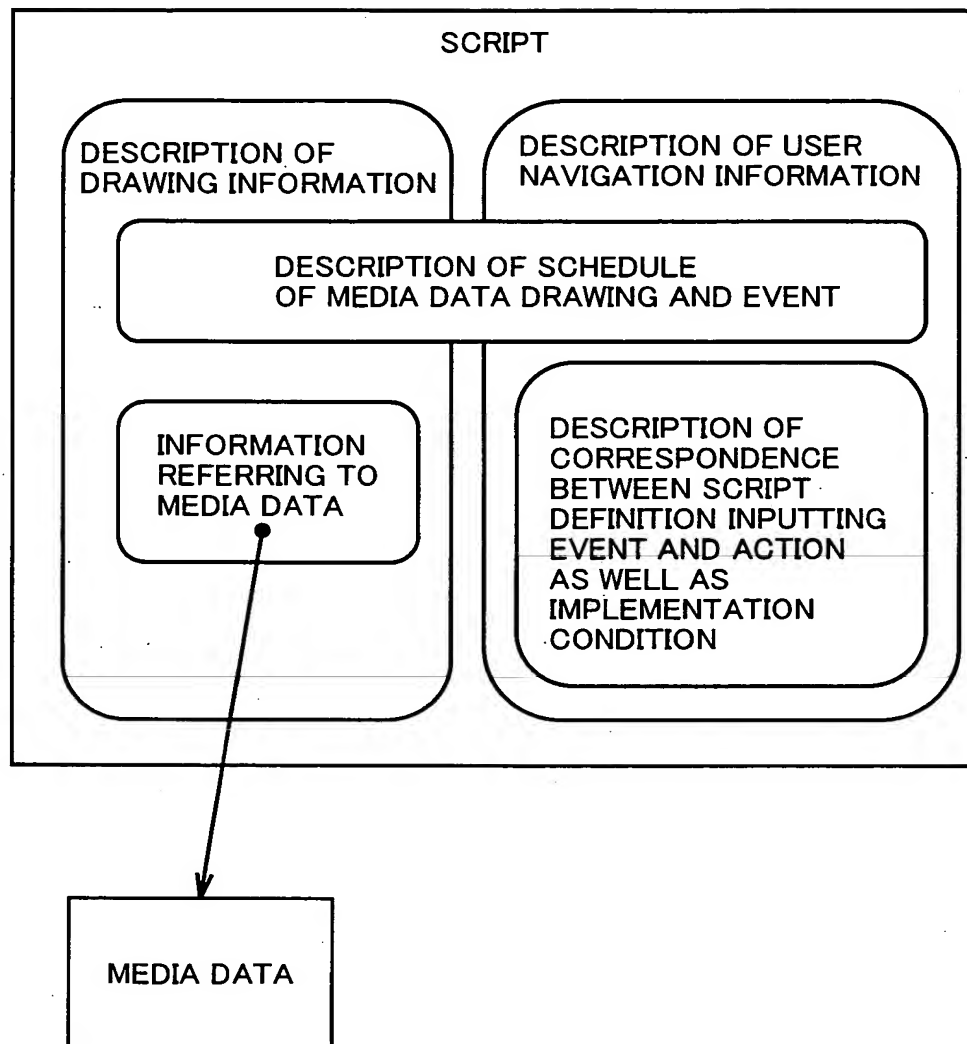


FIG.6

```

1:<smil>
2: <head>
3:   <meta name="title" content="navigation" />
4:   <meta name="author" content="Okure" />
5:   <meta name="role" content="template" />
6:   <layout>
7:     <root-layout width="352" height="144"/>
8:     <region id="Image" width="176" height="120" left="0" top="0" />
9:     <region id="Text" width="176" height="120" left="176" top="0"/>
10:    <region id="foot" width="352" height="24" left="0" top="121" />
11:  </layout>
12:  <action id="act_movie" type="replace" dest="plugin://movie" region="Image" />
13:  <action id="act_image" type="insert" dest="plugin://camera" region="Image" />
14:  <action id="act_text" type="insert" dest="plugin://textedit" region="Text" />
15:  <action id="act_speech" type="insert" dest="plugin://speech_coding" />
16: </head>

```

FIG.7

```

17: <body>
18:   <par>
19:     <seq>
20:       <par dur = "8s">
21:         <video src = "FirstImage.mpg" region="Image" />
22:         <text src = "FirstText.txt" region="Text" />
23:         <audio src = "FirstSound.smf" />
24:         <event ref="act_movie" src="UI" type="select" desc="MOVIE STARTUP"/>
25:       </par>
26:       <par dur = "7s">
27:         <text src = "SecondText.txt" region="foot" />
28:         <event ref="act_image" src="UI" type="select" desc="CAMERA STARTUP"/>
29:         <event ref="act_text" src="UI" type="select" desc="TEXT INPUT"/>
30:         <event ref="act_speech" src="timer" type="2s" desc="SOUND RECORDING"/>
31:       </par>
32:       <par dur = "4s">
33:         <img src = "ThirdImage.jpg" region="Image"/>
34:         <text src = "ThirdText.txt" region="Text"/>
35:         <audio src = "ThirdSound.smf"/>
36:       </par>
37:     </seq>
38:     <text src = "BottomText.txt" region="foot" begin="4s" end="15s" />
39:   </par>
40: </body>
41:</smil>

```

FIG.8

plugin://movie	MOVIE STARTUP
plugin://camera	CAMERA STARTUP
plugin://textedit	TEXT INPUT
plugin://speech_coding	SOUND RECORDING

FIG.9

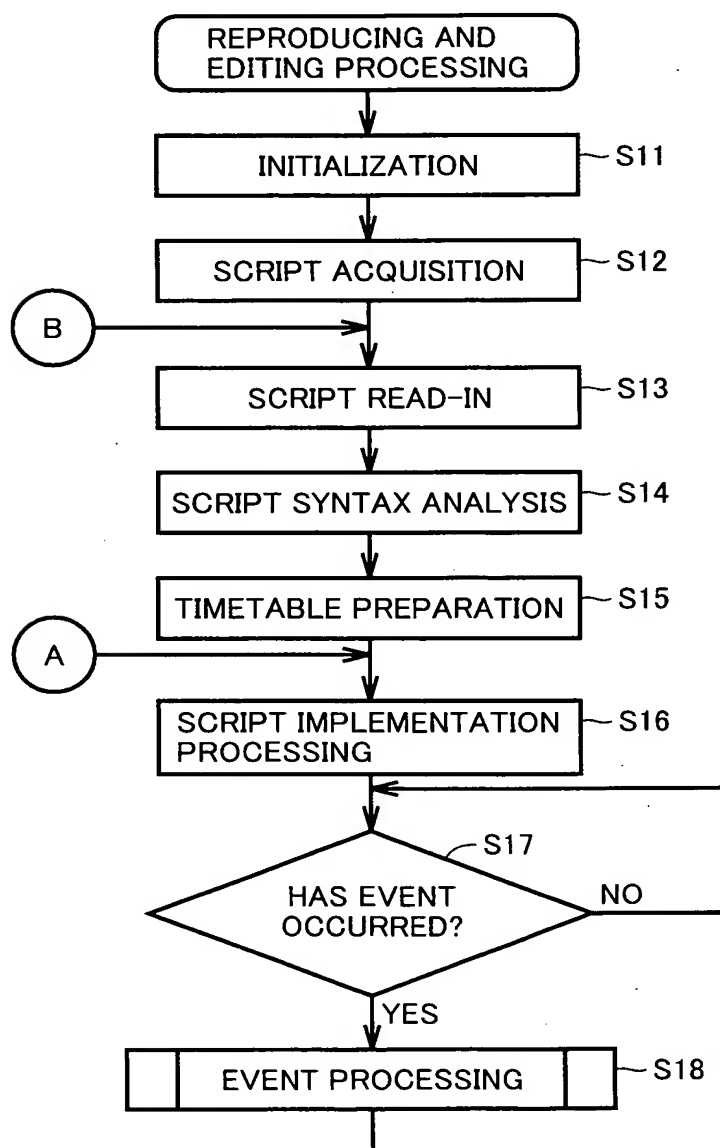


FIG.10

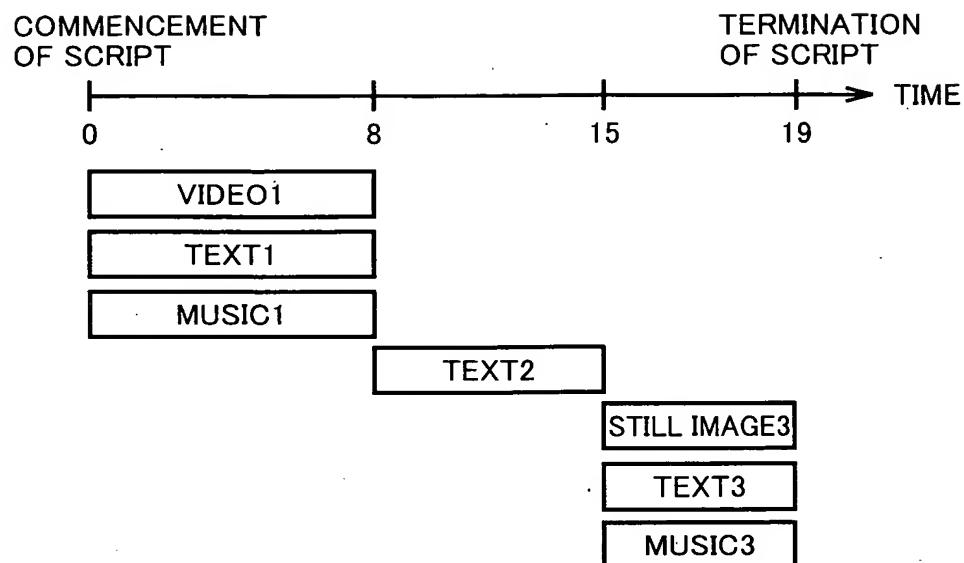


FIG.11

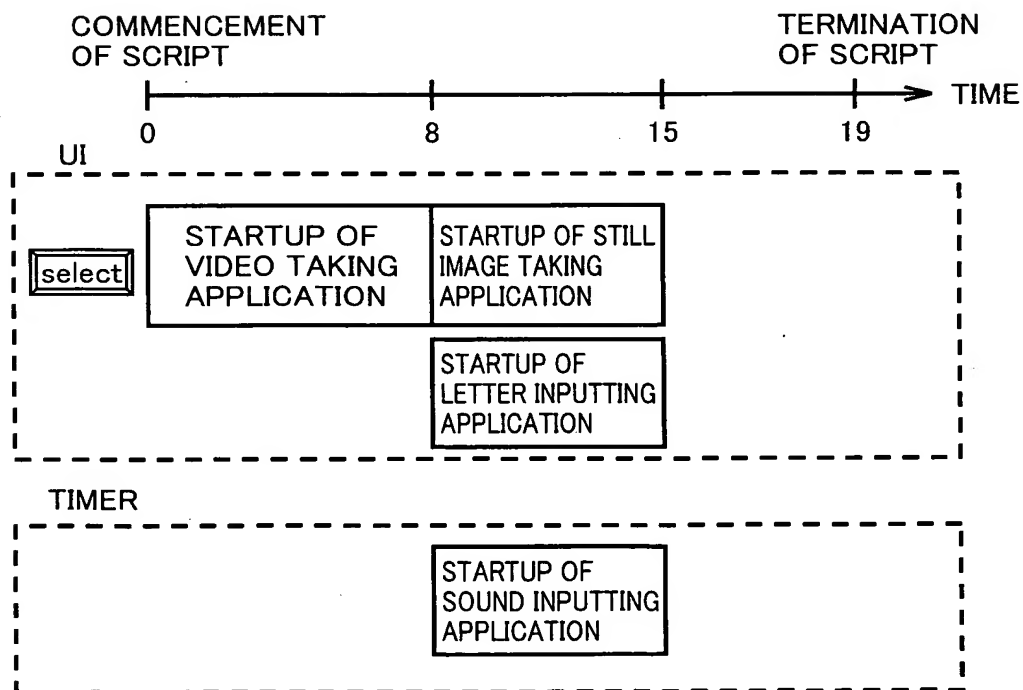


FIG.12

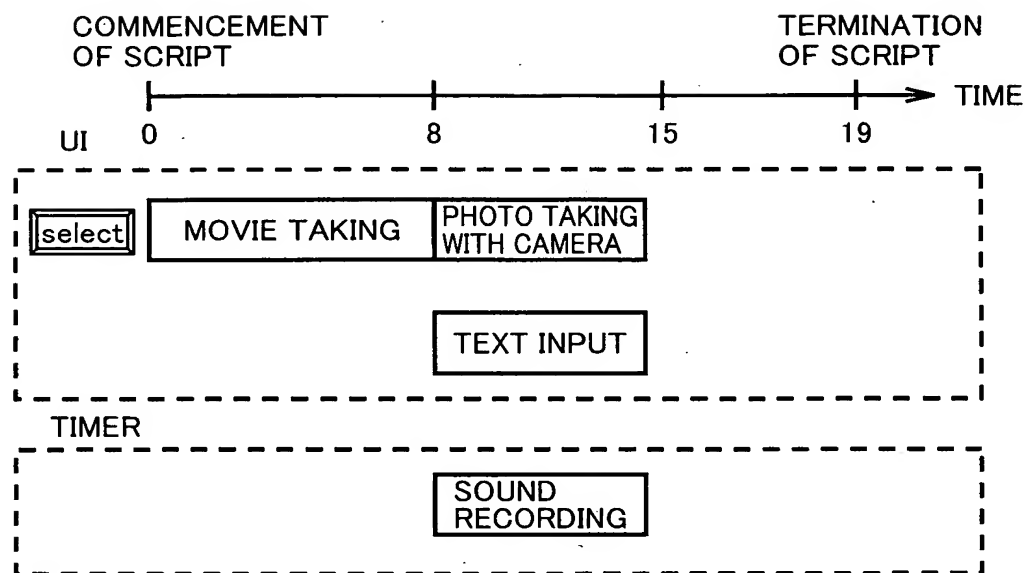


FIG.13

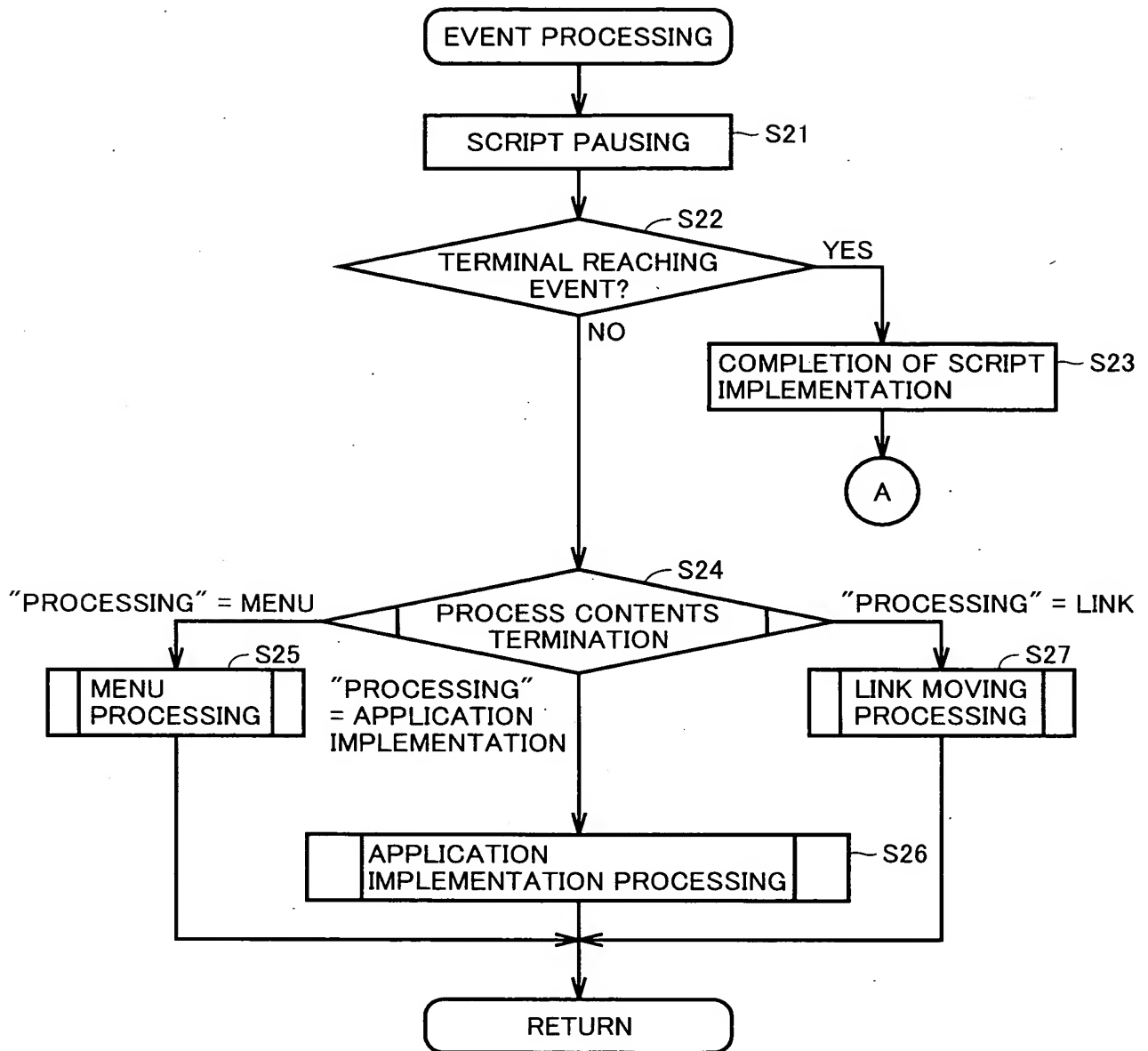


FIG.14

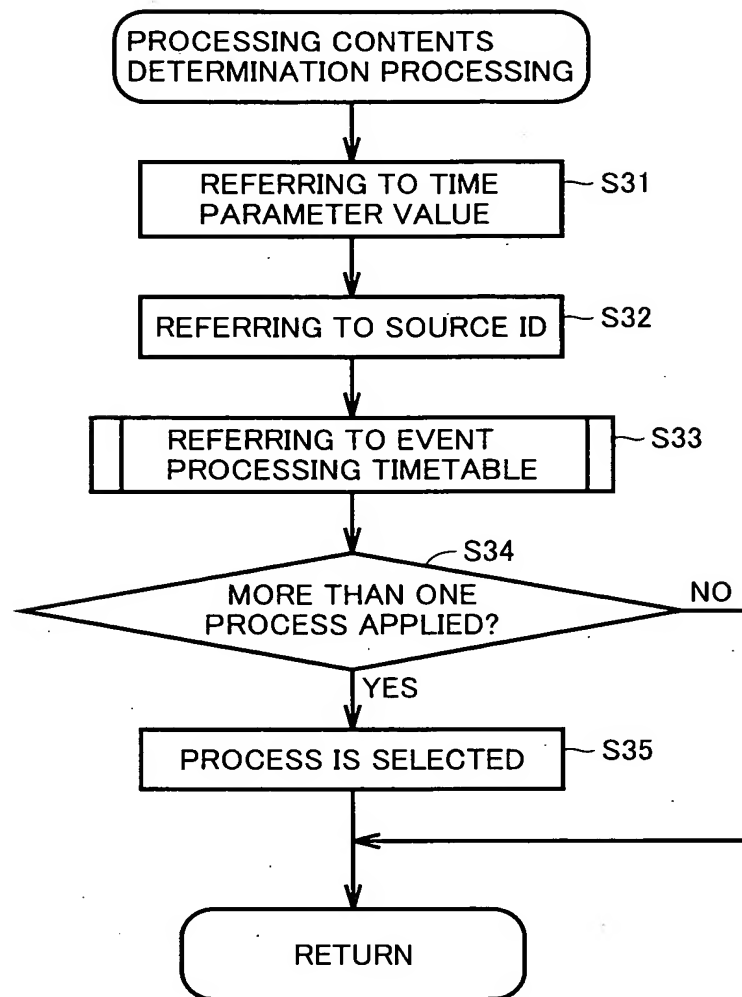


FIG.15

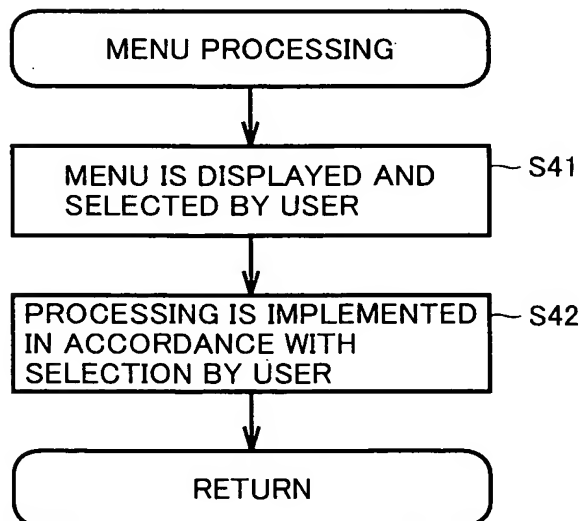


FIG.16

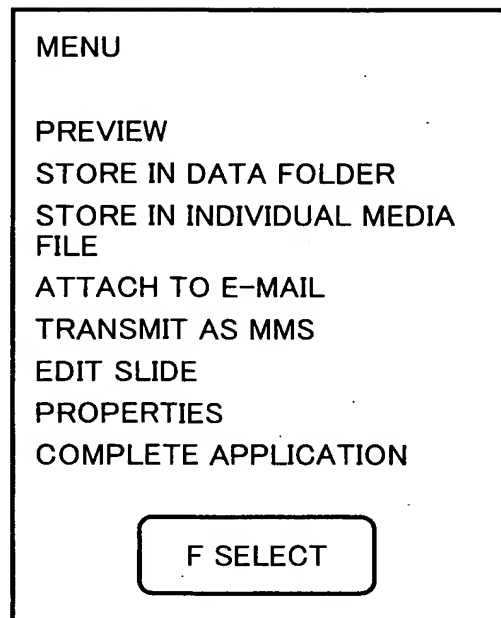


FIG.17

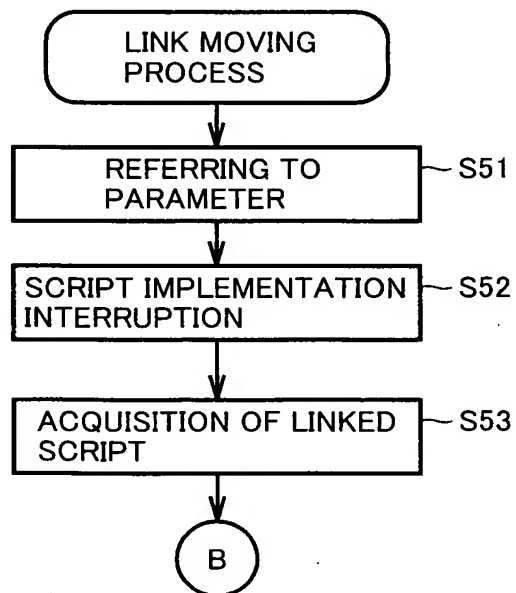


FIG.18

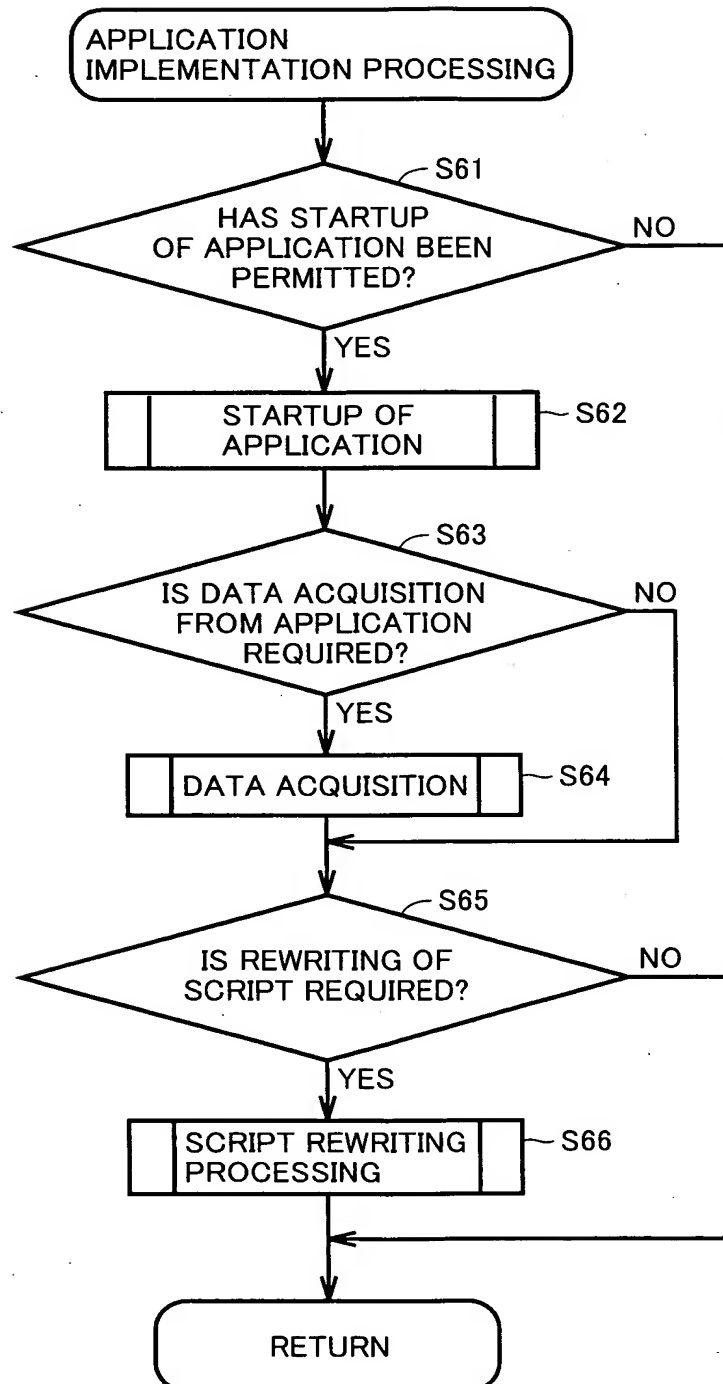


FIG.19

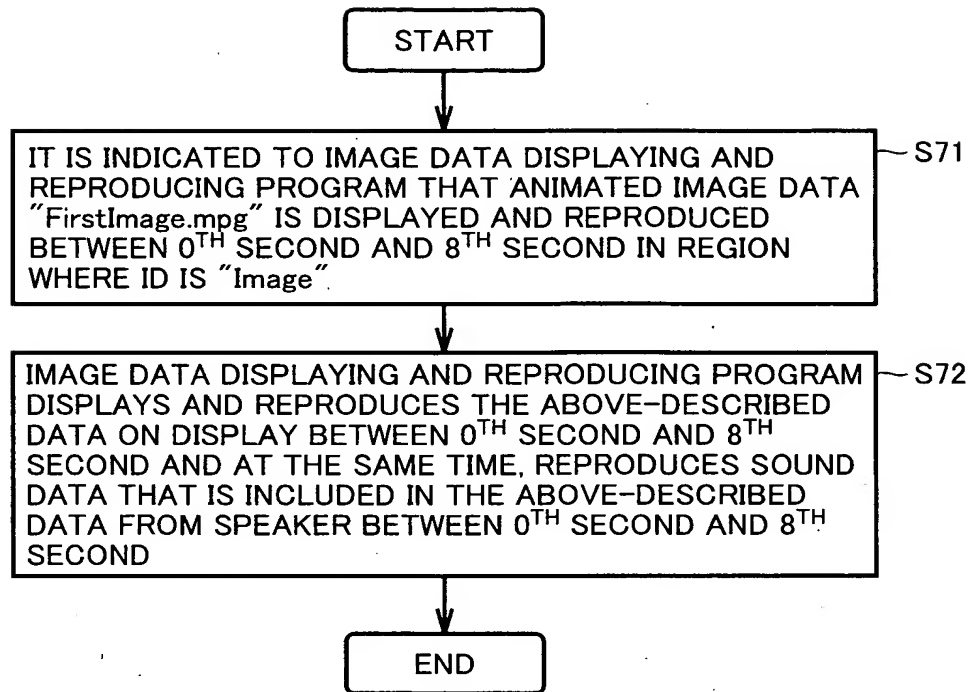


FIG.20

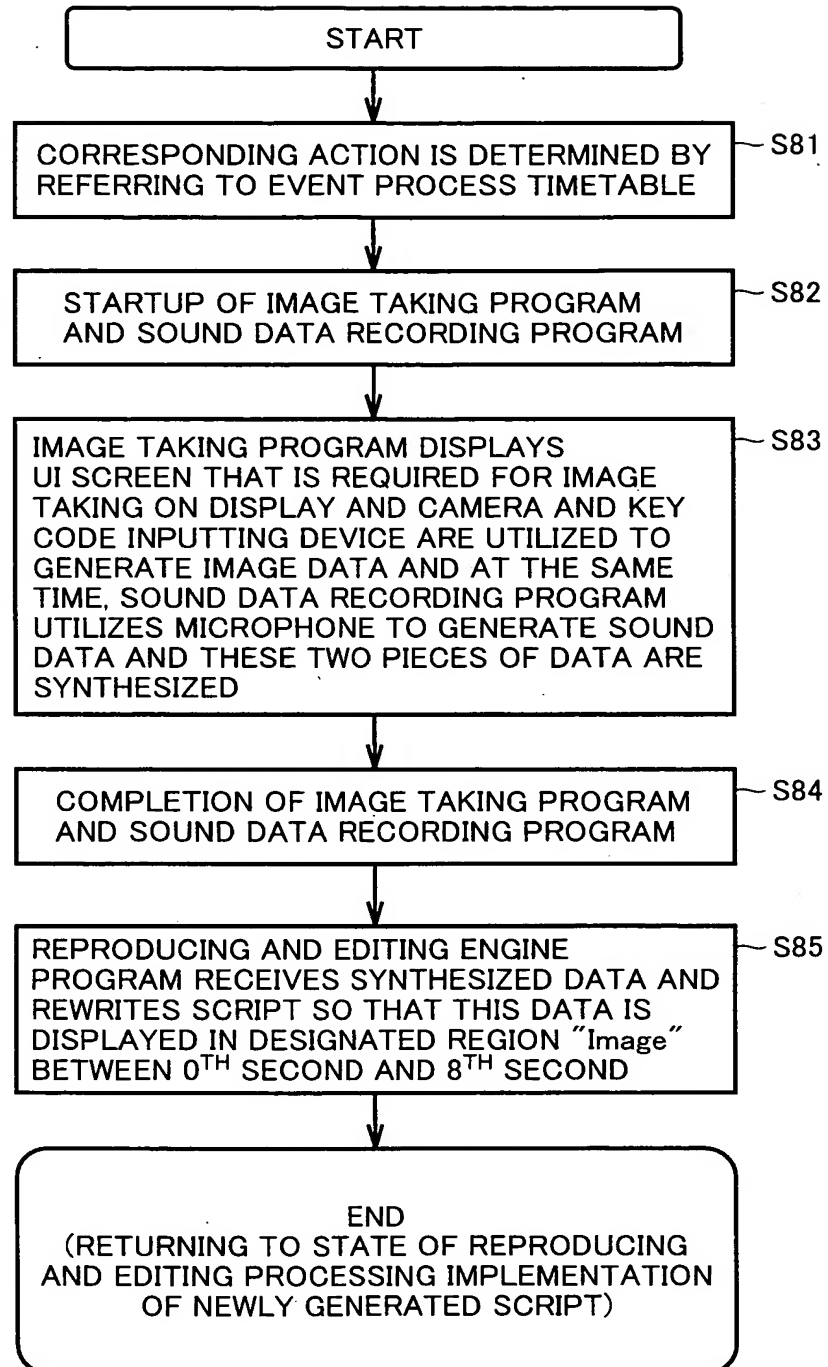


FIG. 21

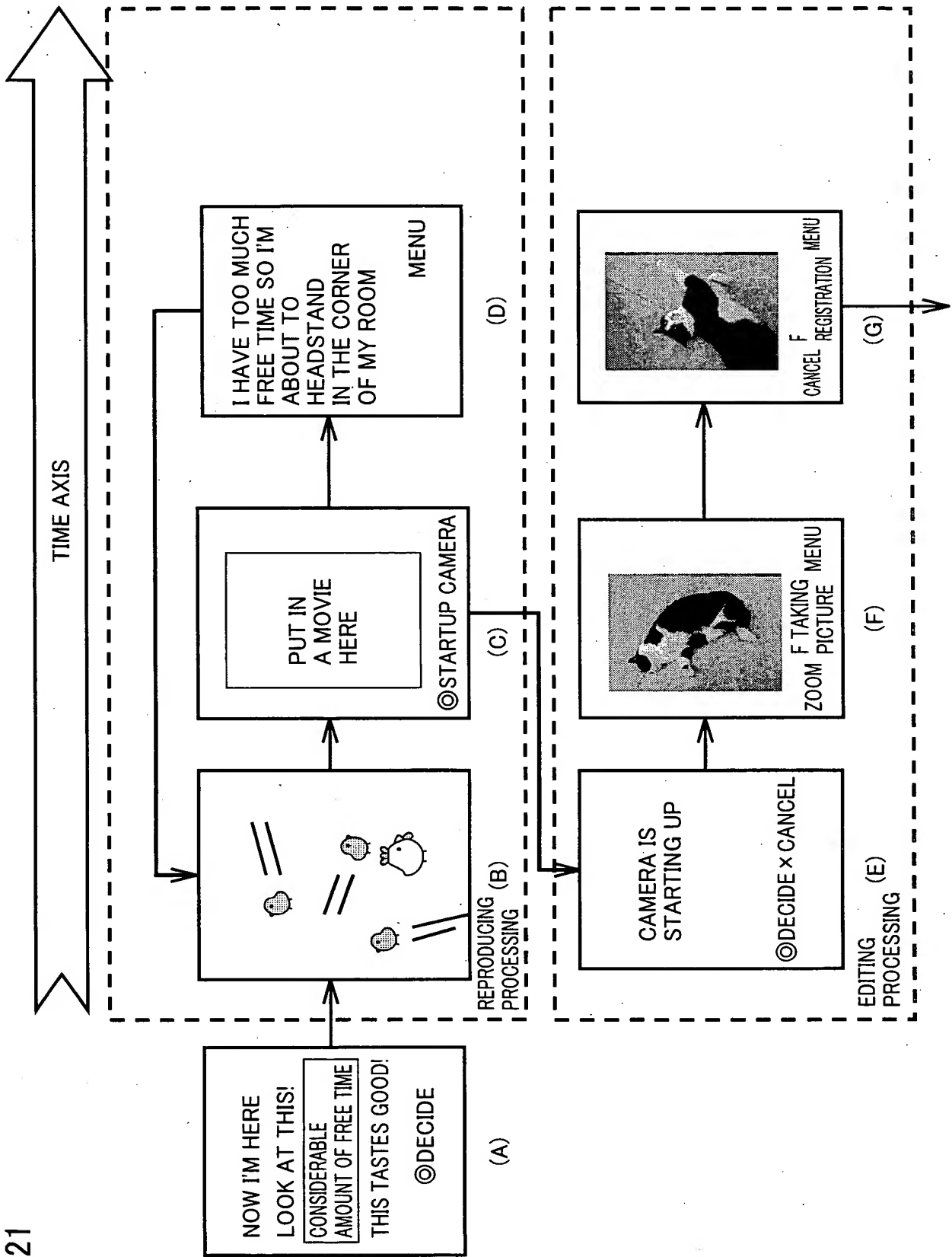


FIG.22

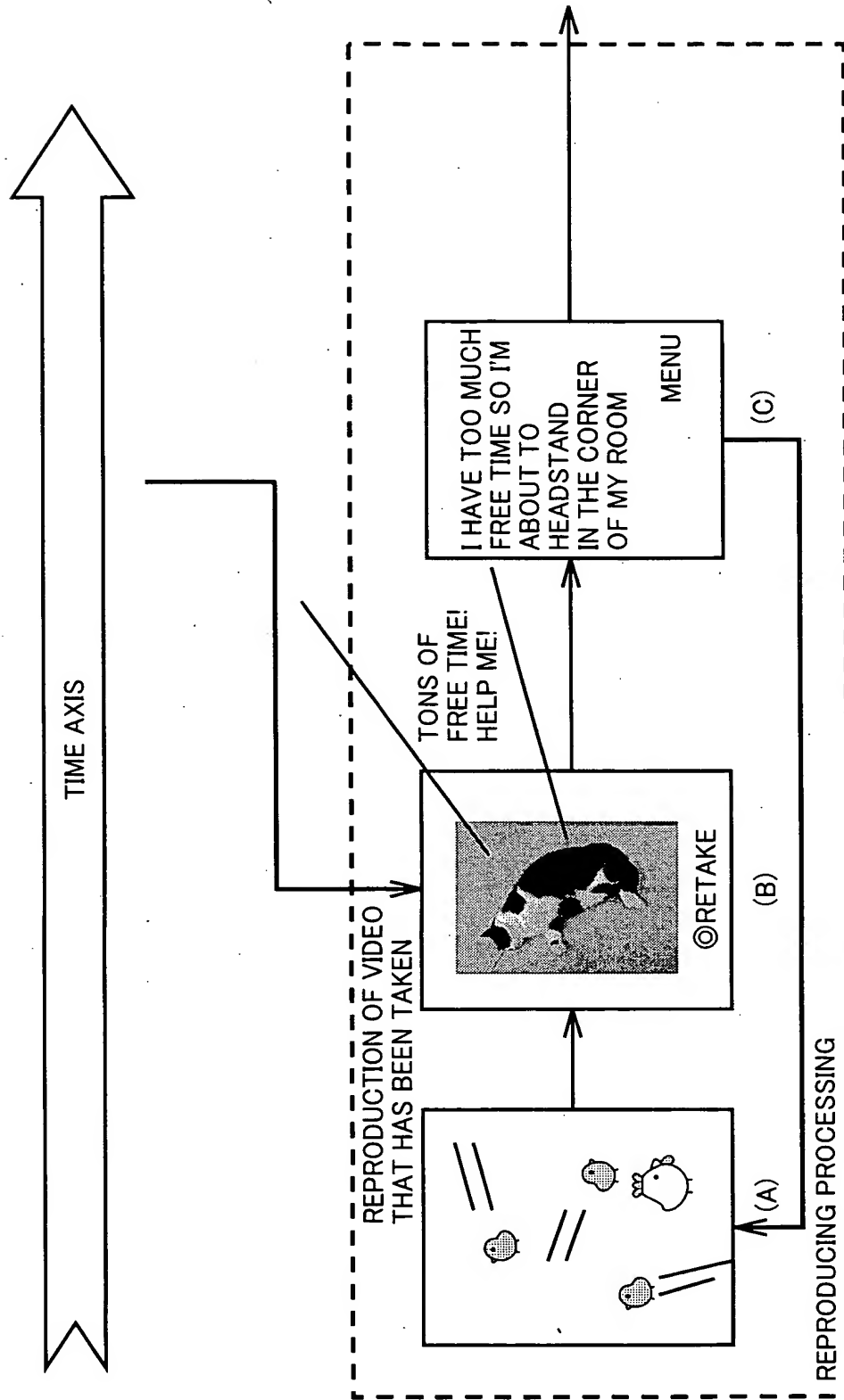


FIG.23

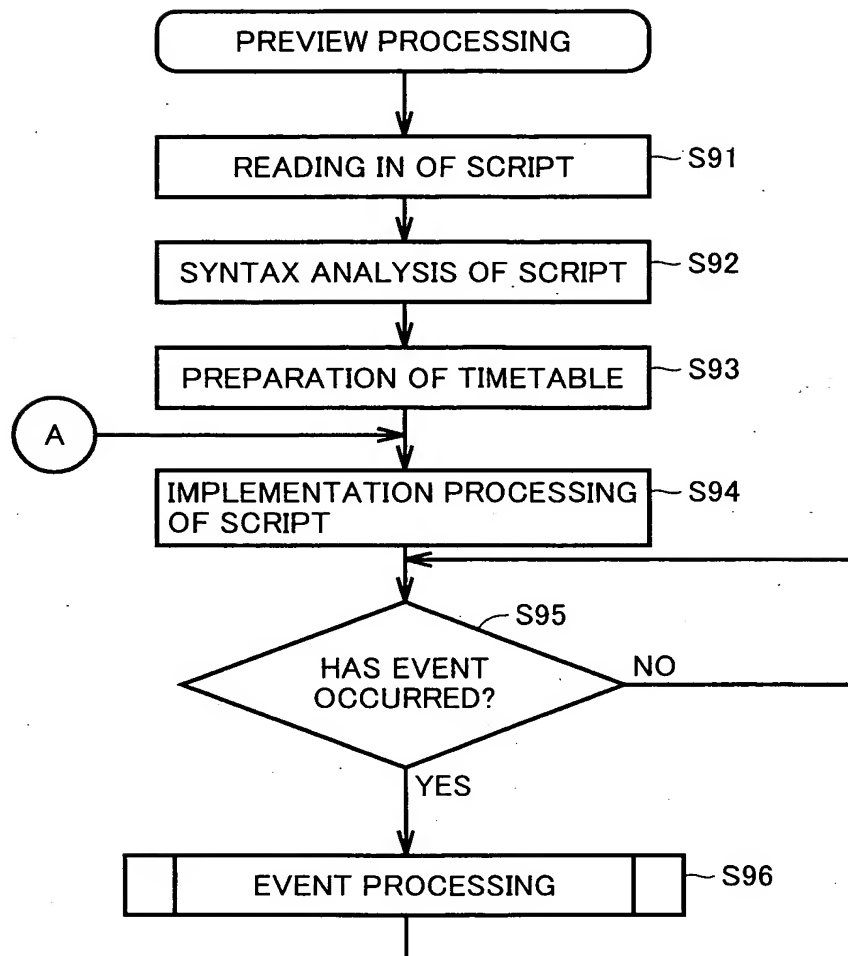


FIG.24

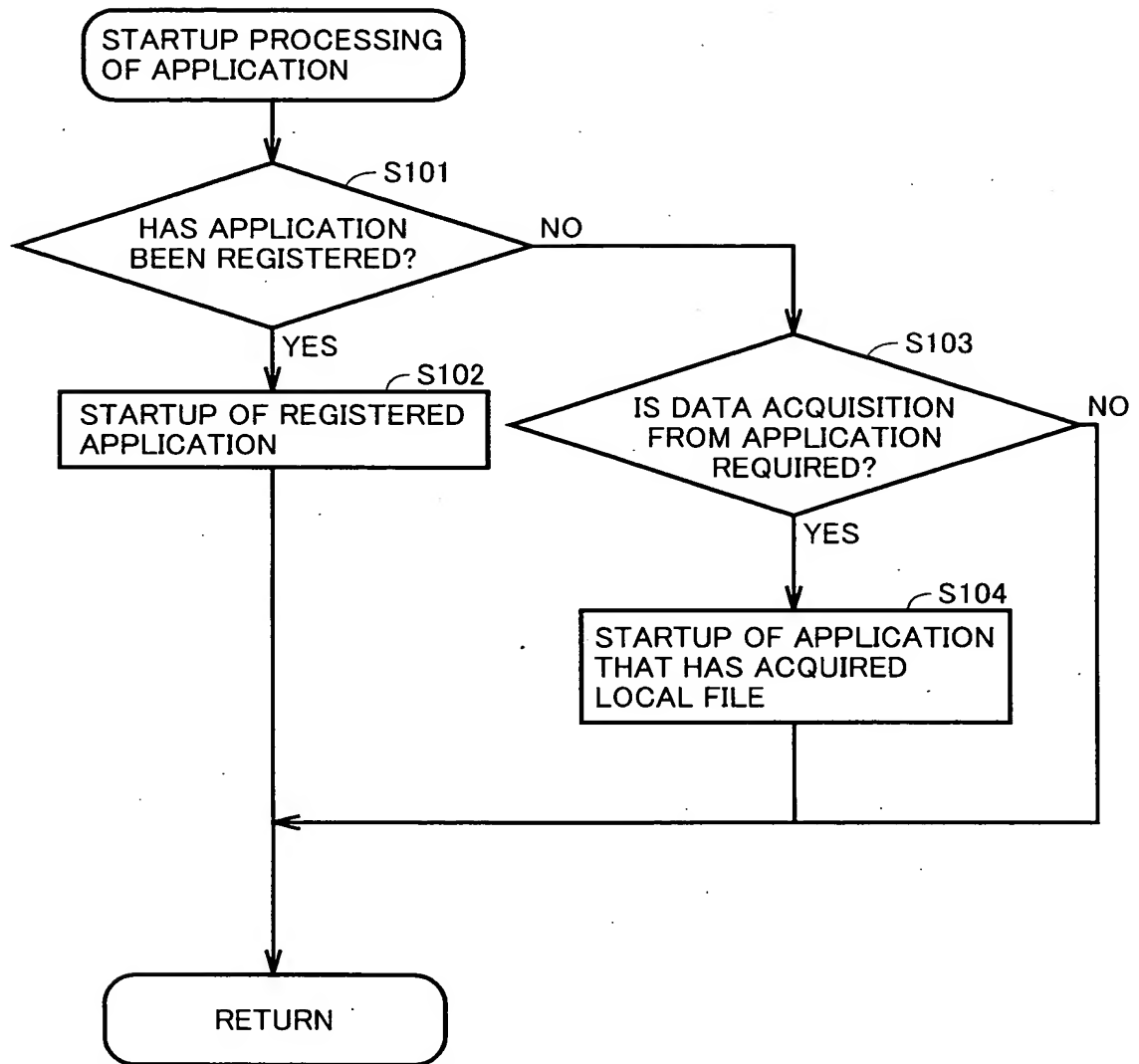


FIG.25

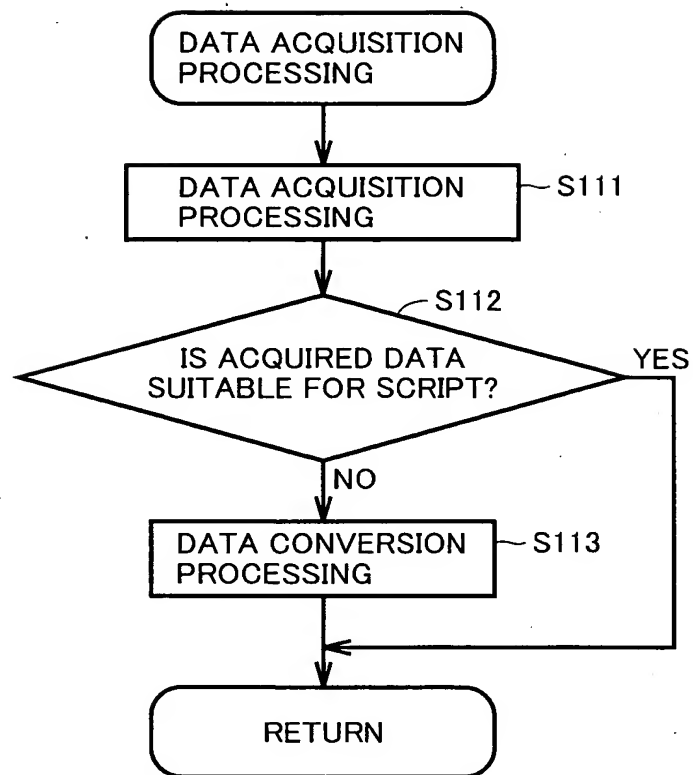


FIG.26

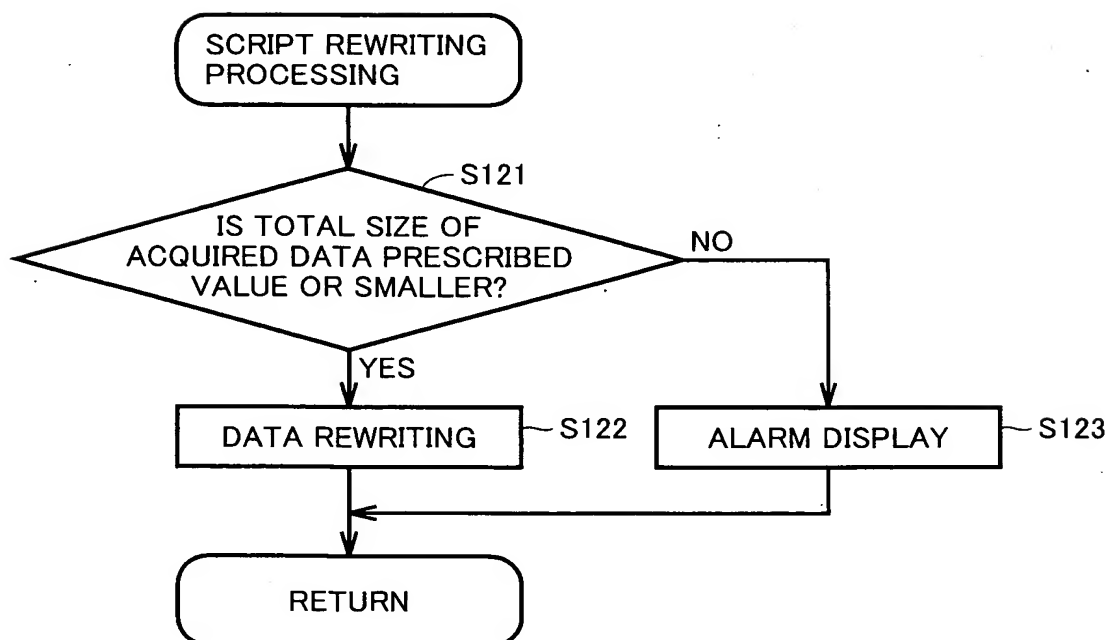


FIG.27

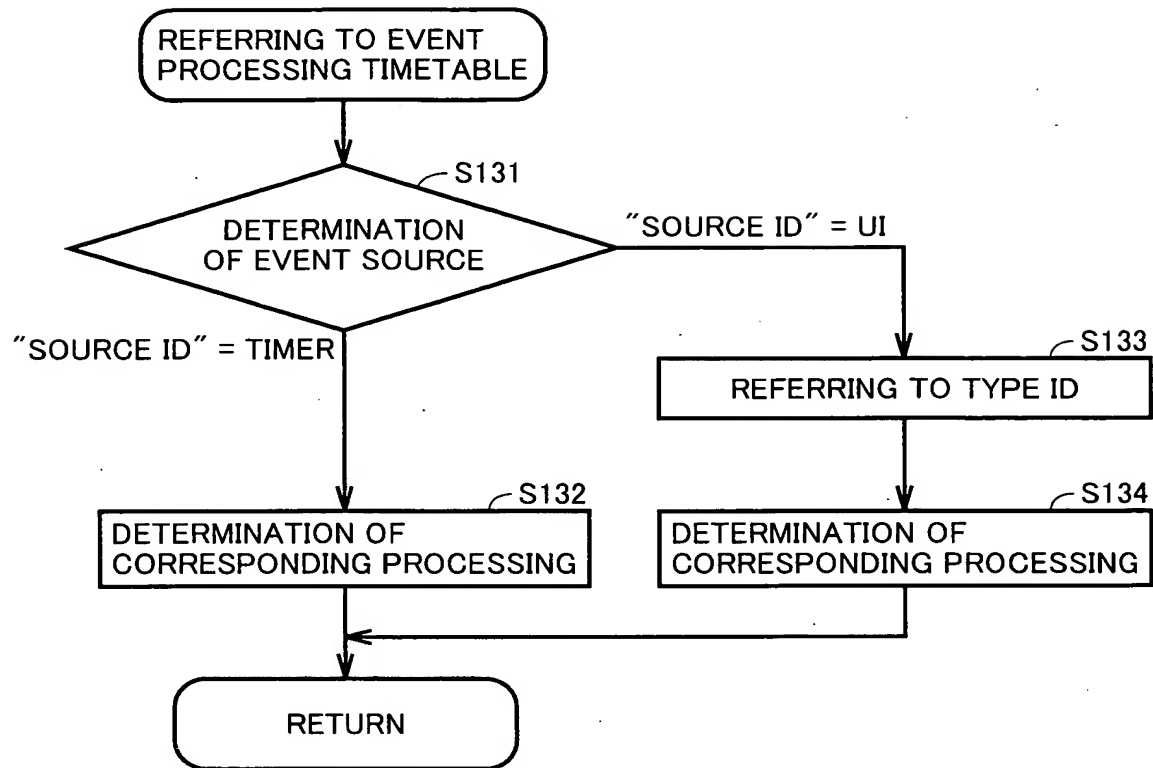


FIG.28

LOGIC SYMBOLS	HARDWARE KEY CODES
F1	F
F2	1
F3	2

FIG.29

```

1:<smil>
2: <head>
3:   <meta name="title" content="navigation" />
4:   <meta name="role" content="contents" />
5:   <layout>
6:     <root-layout width="352" height="144"/>
7:     <region id="top width="352" height="72" left="0" top="0" />
8:     <region id="middle" width="352" height="48" left="0" top="72"/>
10:  </layout>
11:  <action id="act_www" type="ext" dest="http://www.sharp.co.jp/sales" />
12:  <action id="act_mail" type="ext" dest="mailto://sales@sharp.co.jp"/>
13:  <action id="act_phone" type="ext" dest="phone://09003476786" />
15: </head>

```

FIG.30

```

16: <body>
17:   <seq>
18:     <par dur = "10s">
19:       
20:       <text src = "ProductDesc.txt" region="middle" />
21:       <event begin="1s" dur="3s" ref="act_www" src="UI" type="select" />
22:       <event begin="4s" dur="3s" ref="act_phone" src="UI" type="select" />
23:       <event begin="7s" dur="3s" ref="act_mail" src="UI" type="select" />
24:     </par>
25:   </seq>
26: </body>
27:</smil>

```

FIG.31

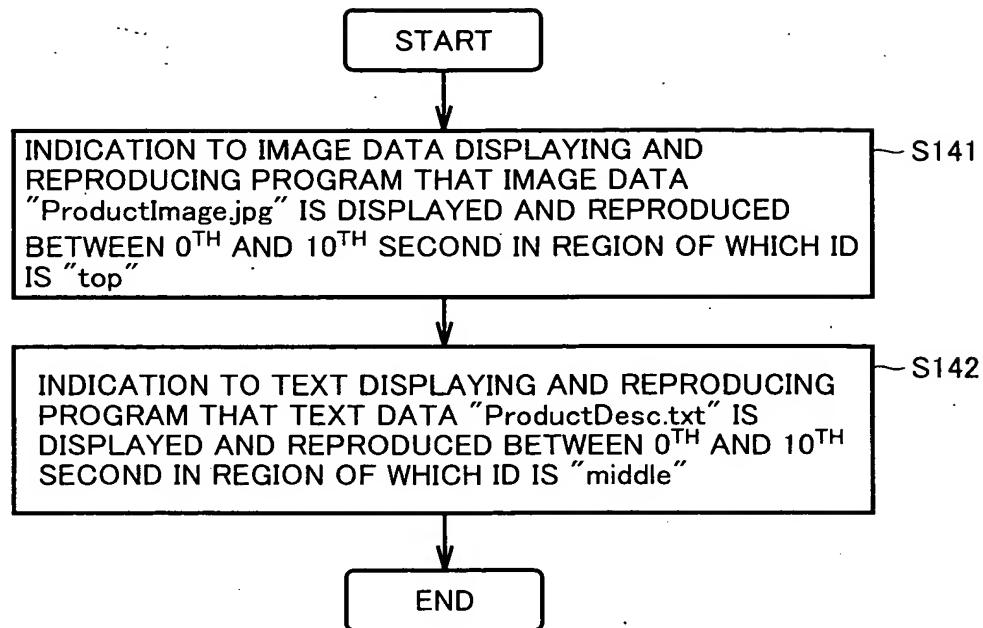


FIG.32

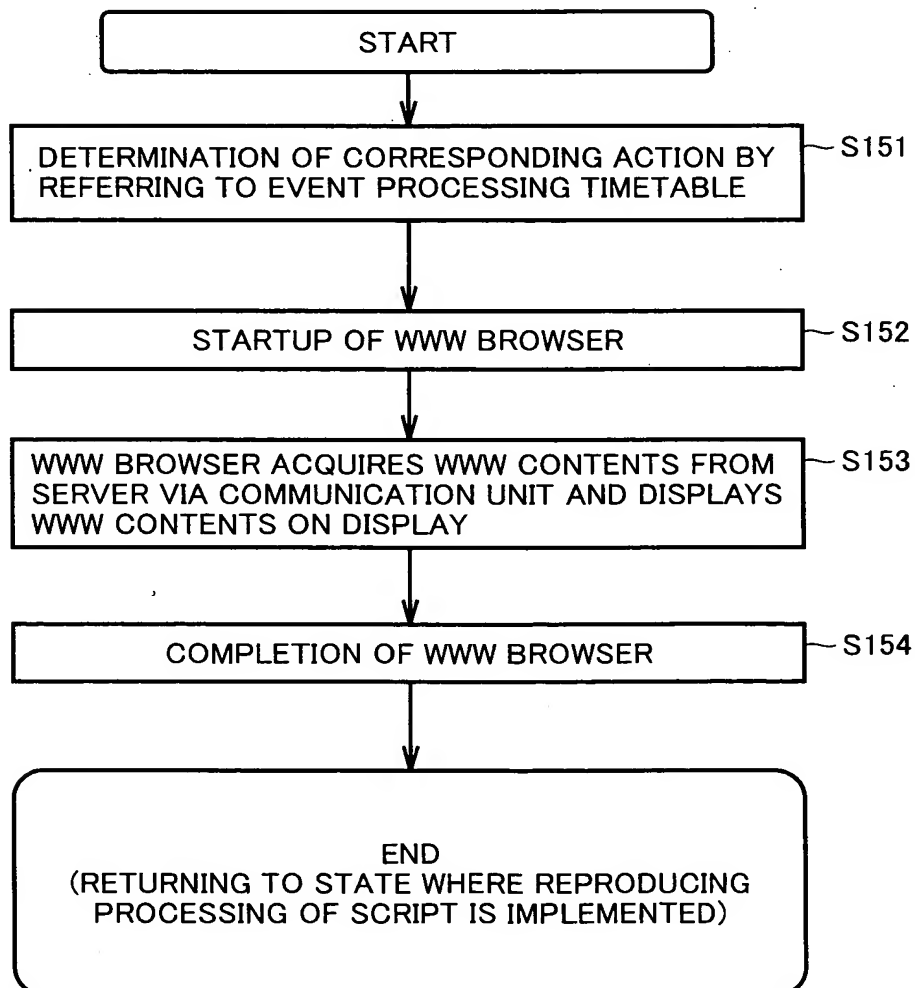


FIG.33

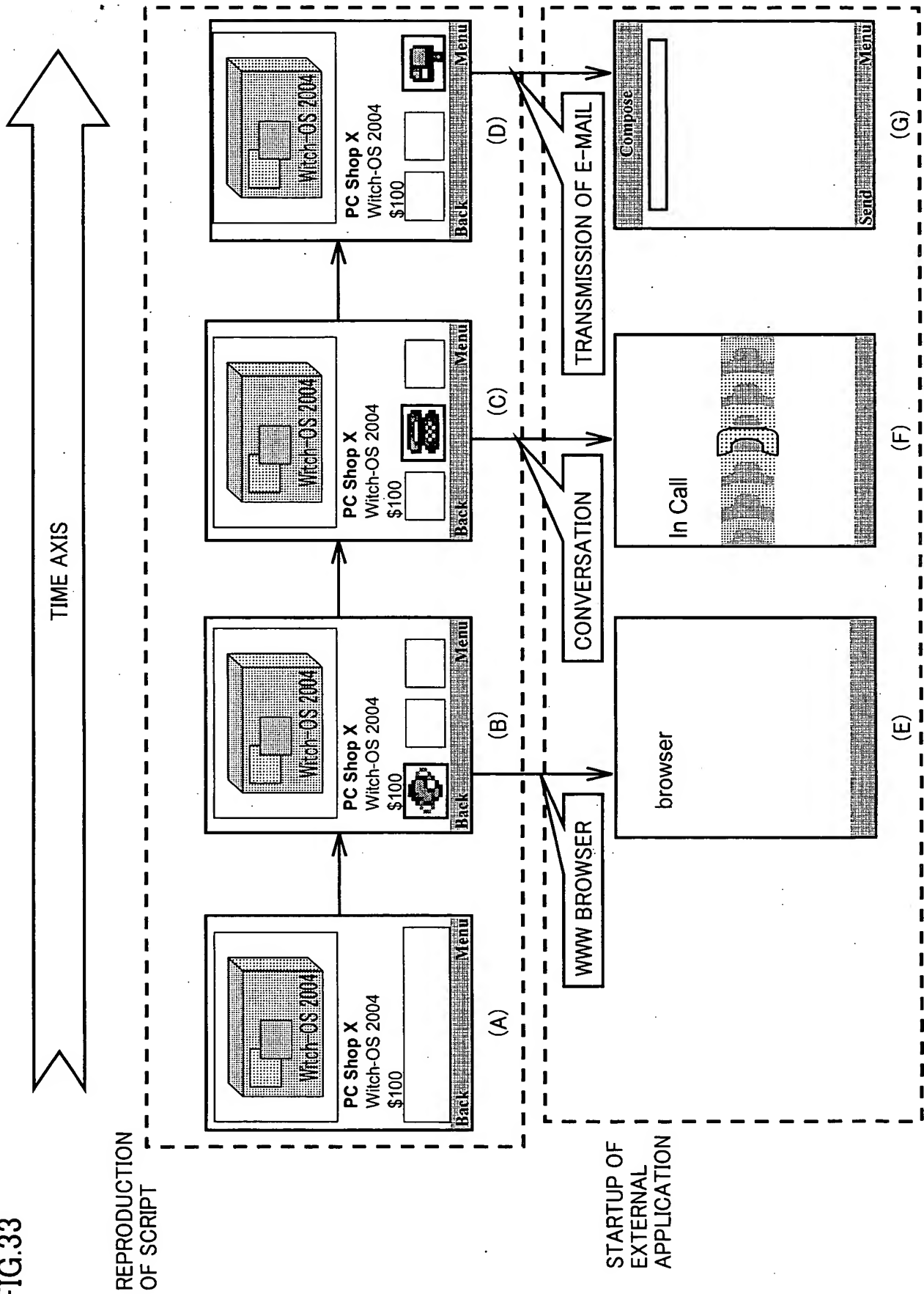


FIG.34

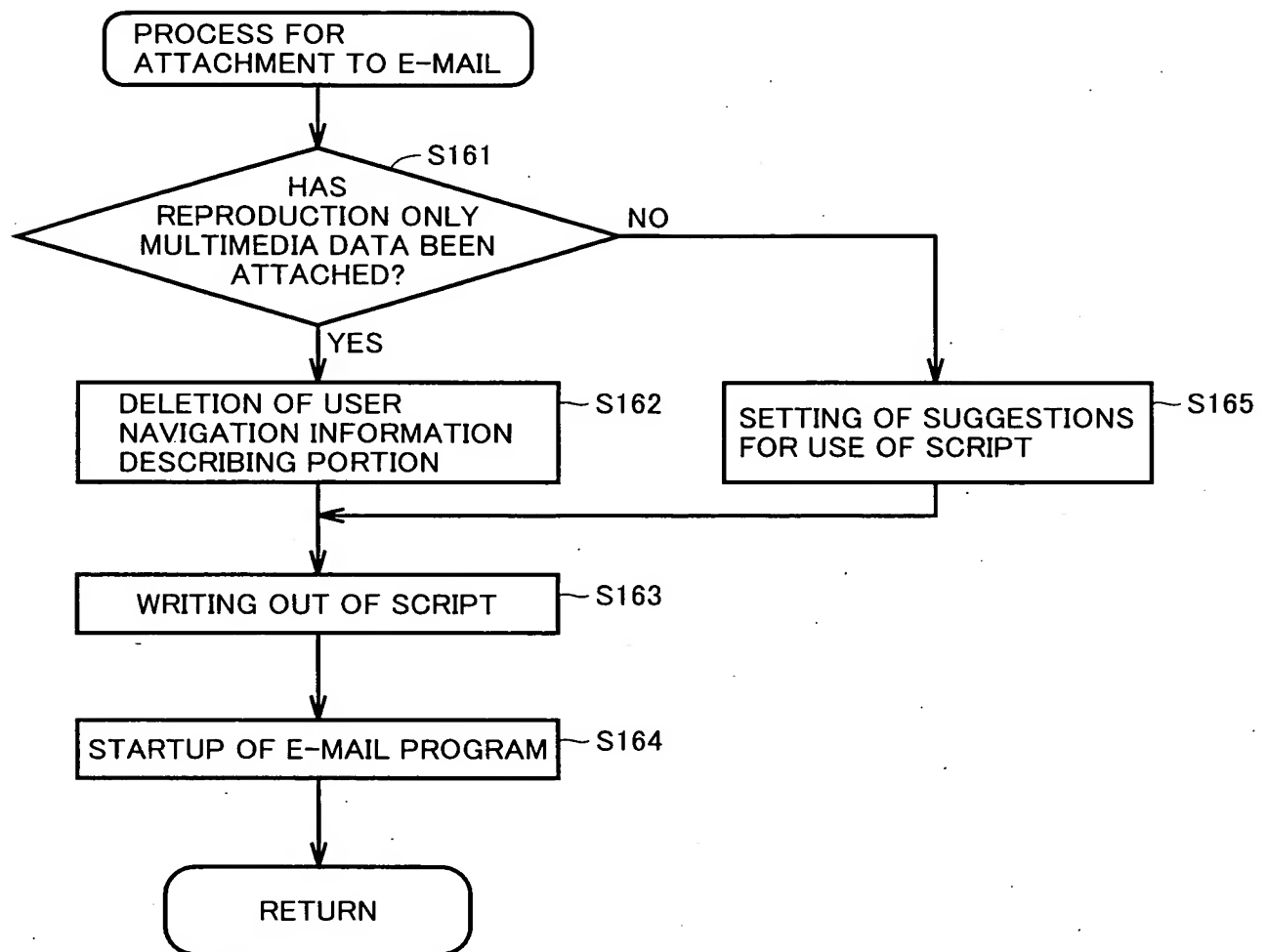


FIG.35

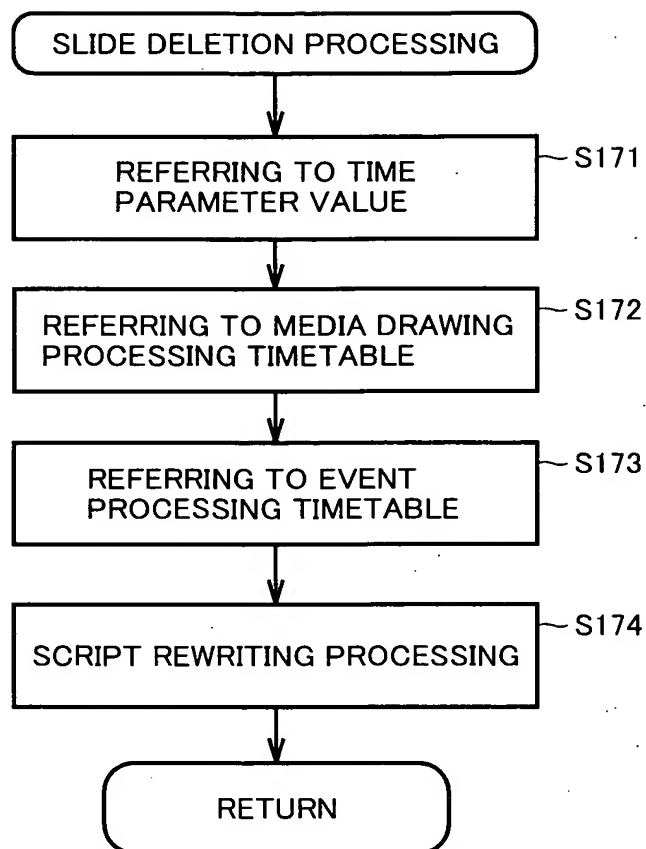


FIG.36

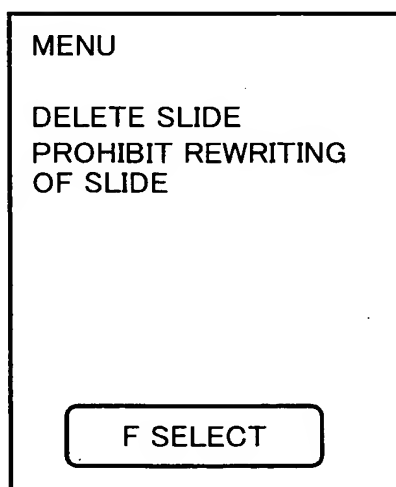


FIG.37

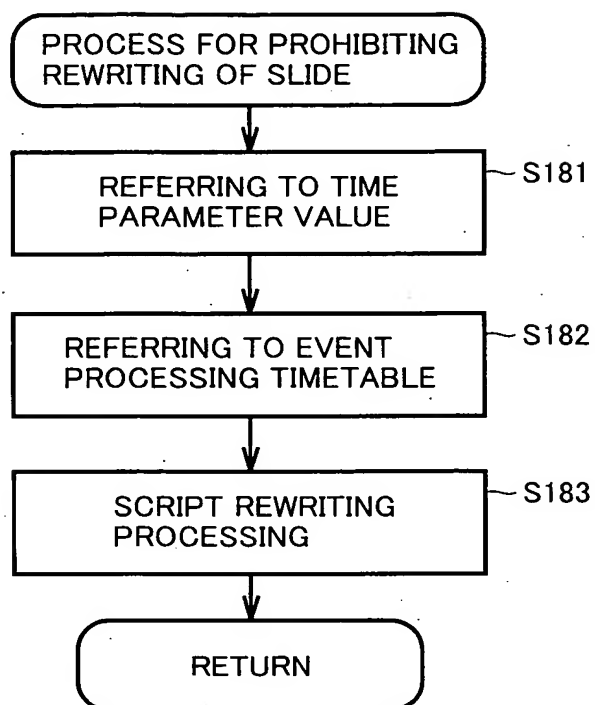


FIG.38

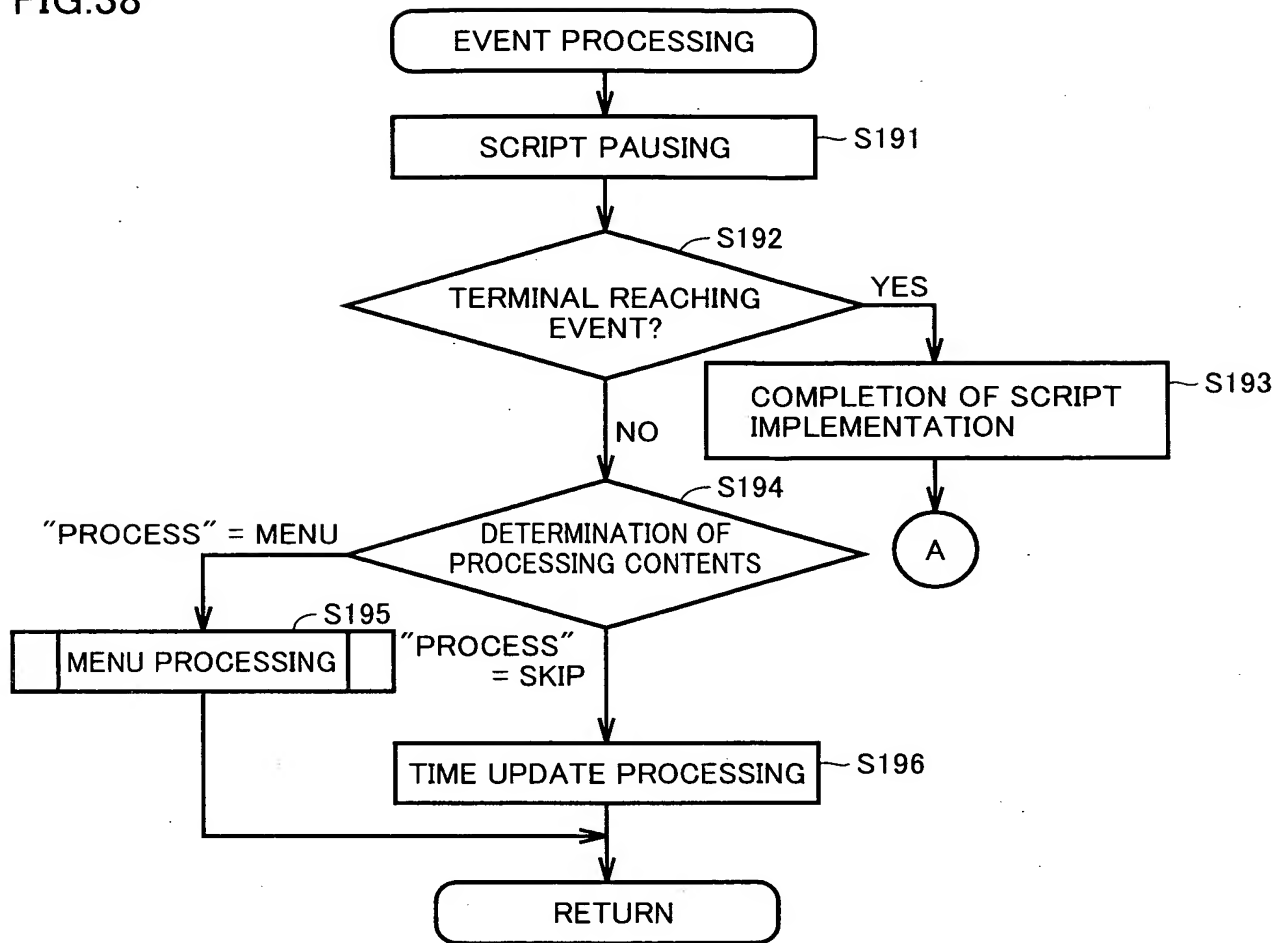


FIG.39

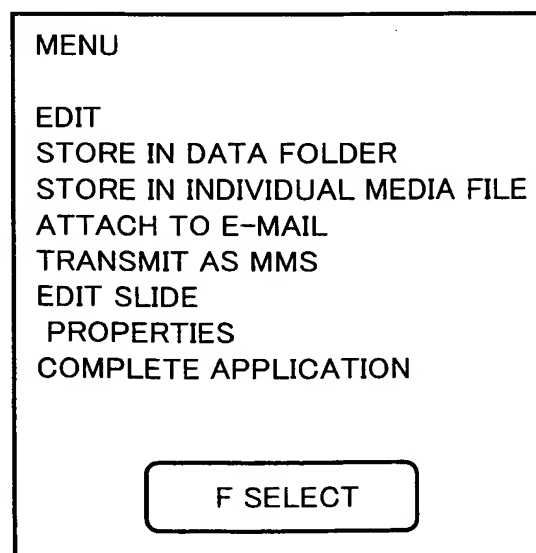


FIG. 40

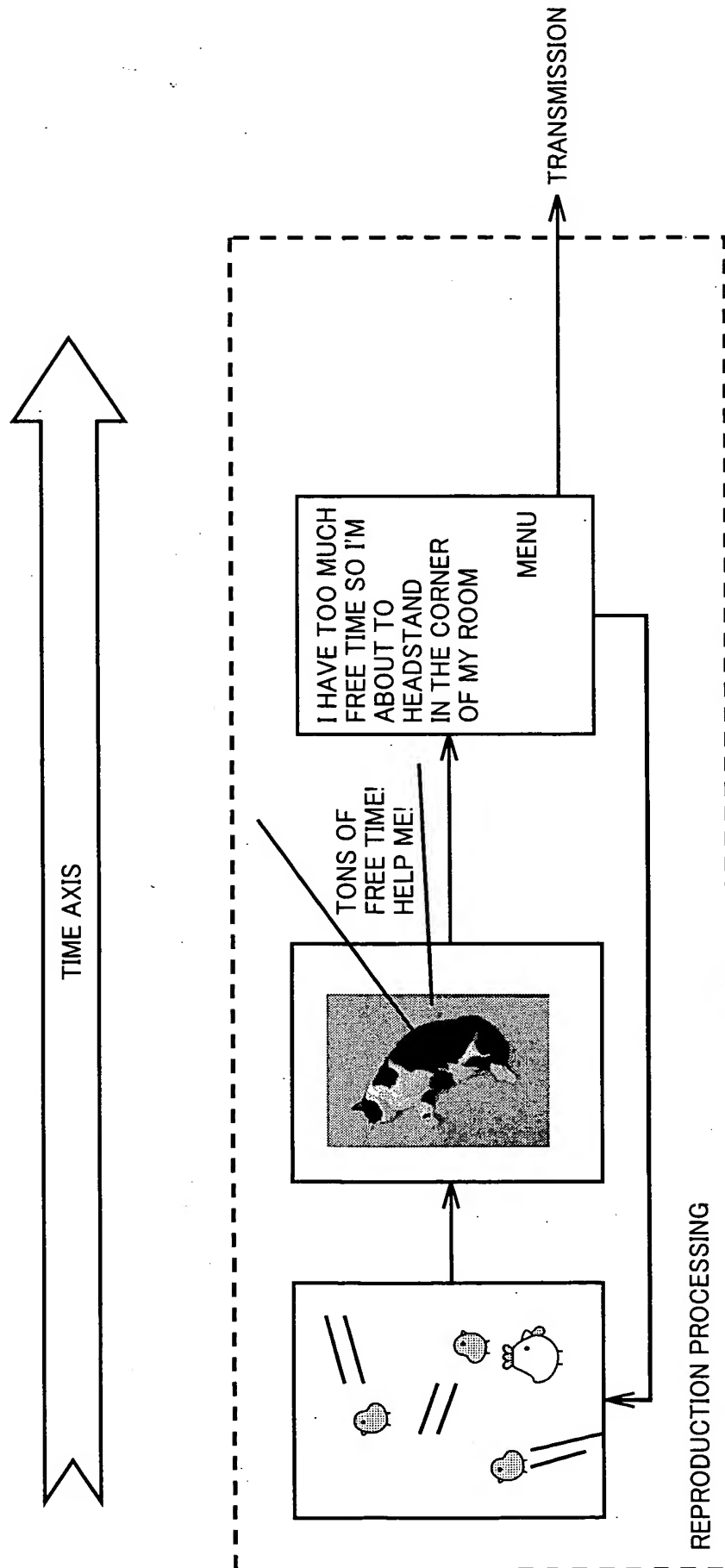


FIG. 41A

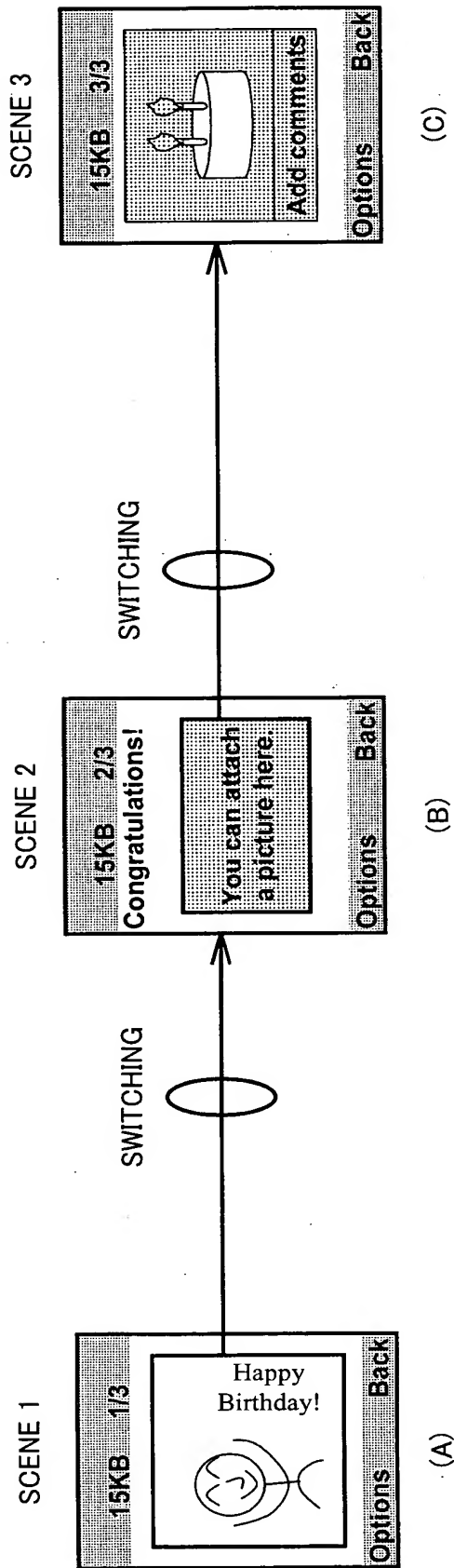


FIG. 41B

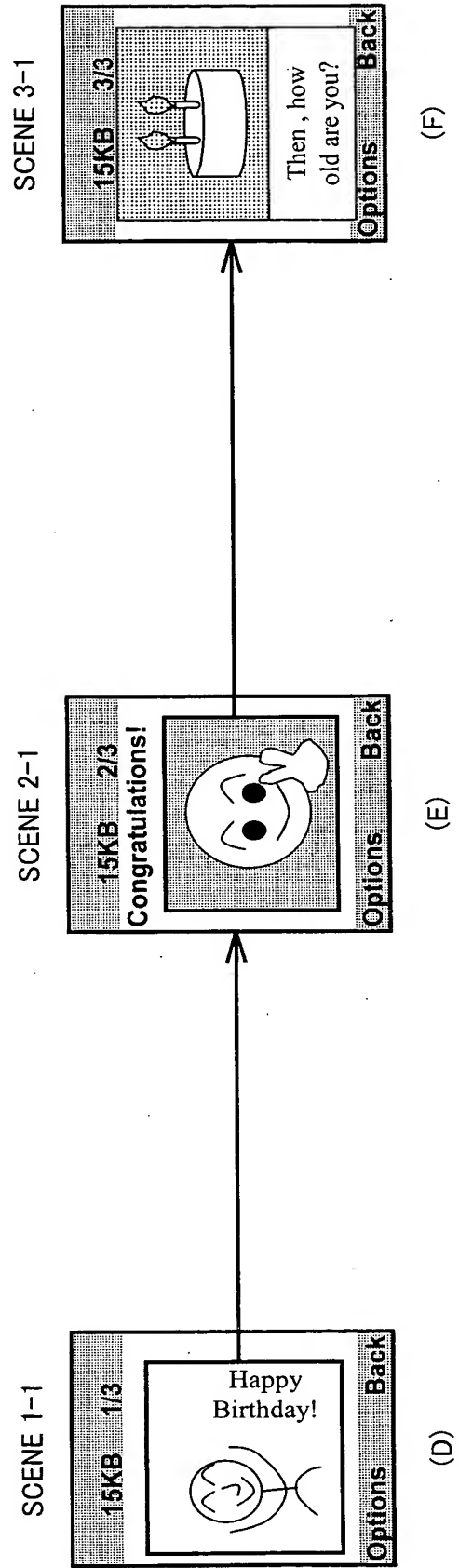


FIG.42

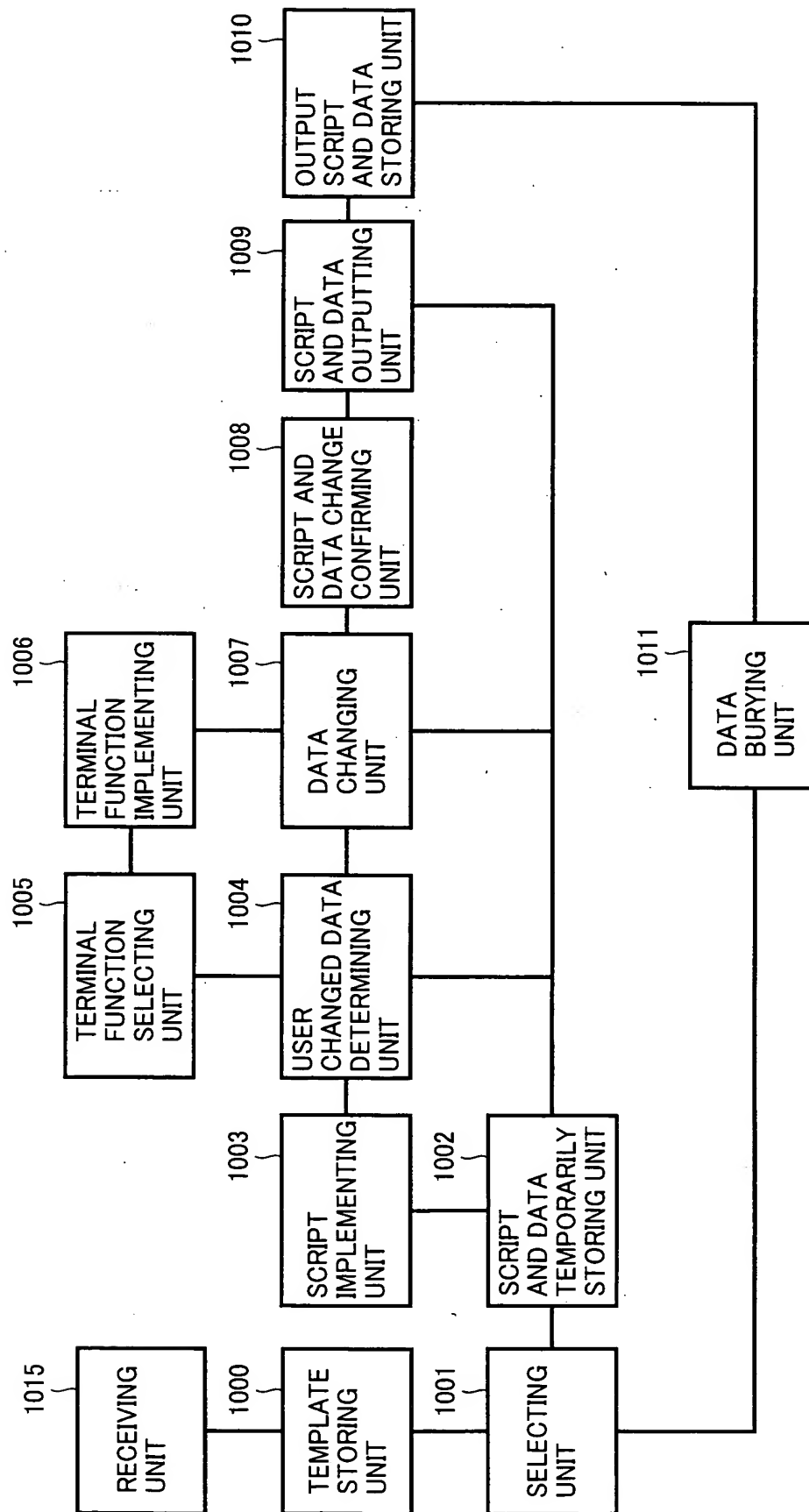


FIG.43

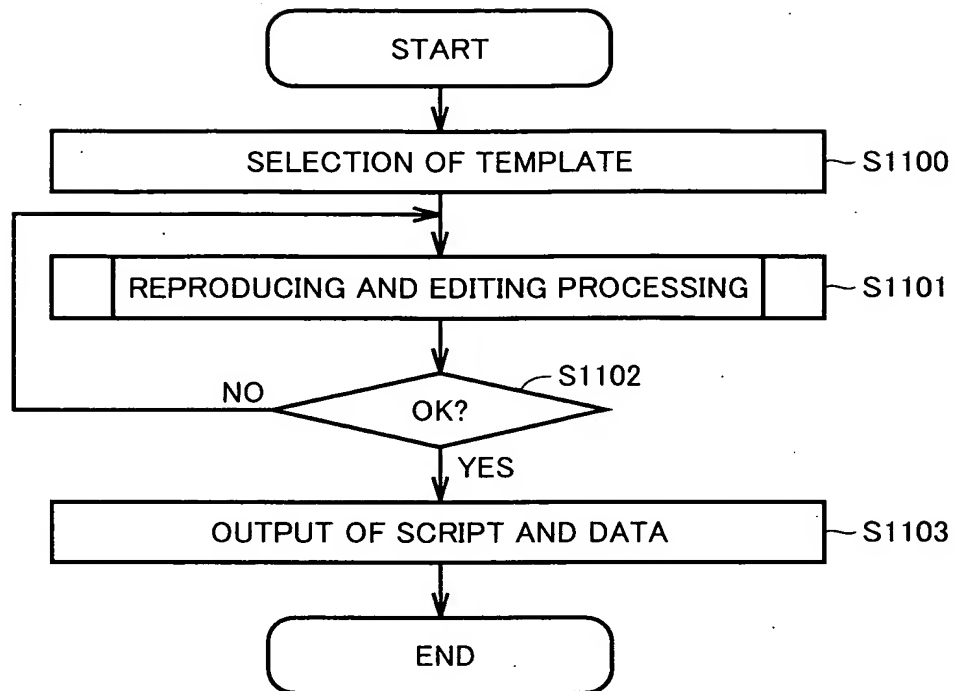


FIG.44

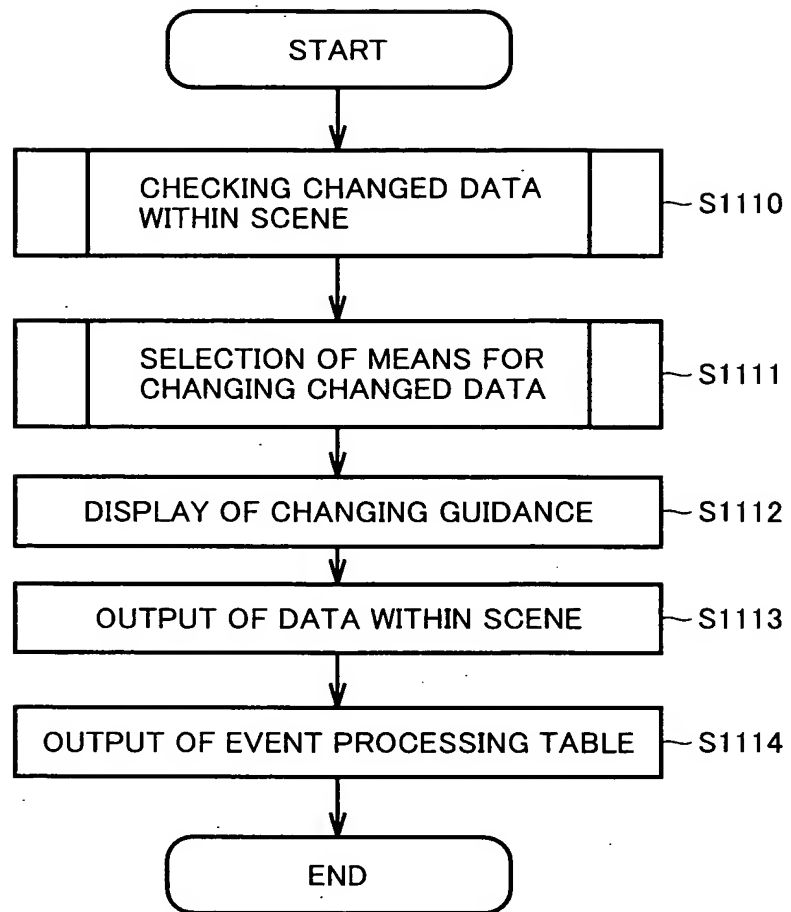


FIG. 45

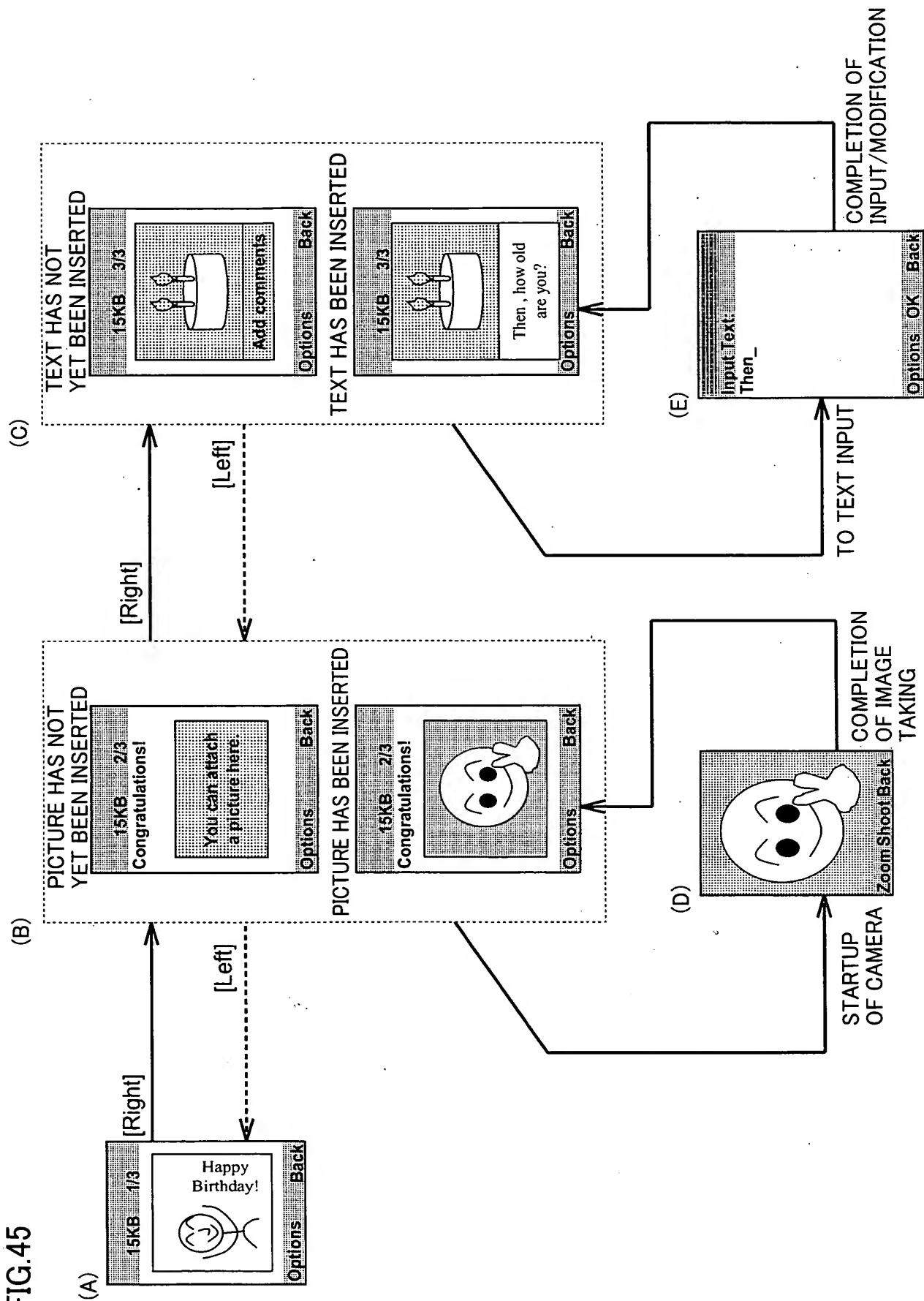


FIG.46

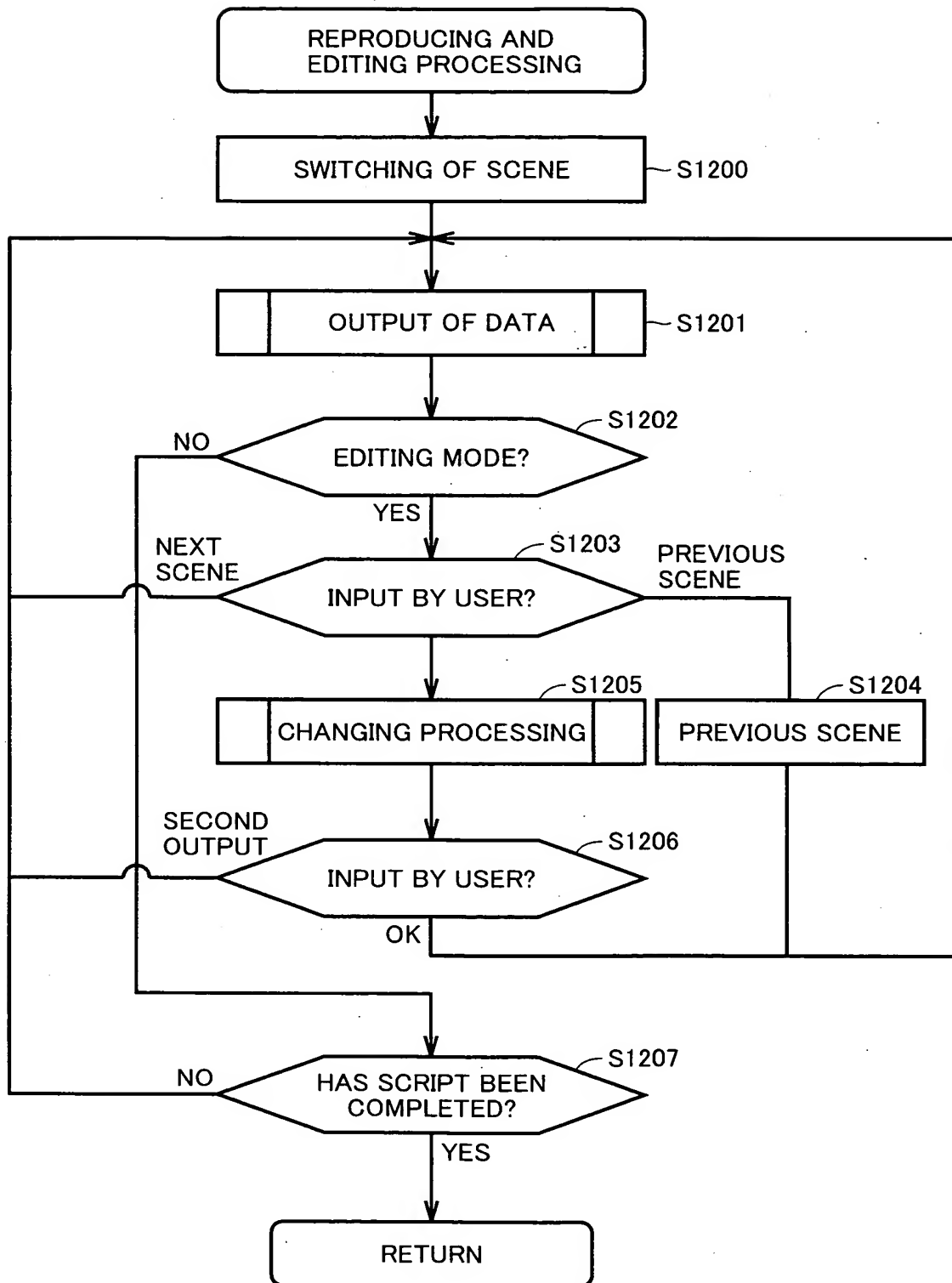


FIG.47

```
1: <smil>
2: <head>
3:   <meta name="title" content="navigation" />
4:   <meta name="author" content="Okure" />
5:   <meta name="role" content="template" />
6: <layout>
7:   <root-layout width="352" height="144"/>
8:   <region id="Image" width="176" height="120" left="0" top="0" />
9:   <region id="Text" width="176" height="120" left="176" top="0"/>
10: </layout>
11: </head>
12: <body>
13:   <par>
14:     <seq>
15:       <par dur = "8s">
16:         <img src = "FirstImage.jpg" region="Image" />
17:       </par>
18:       <par dur = "7s">
19:         <img src = "SecondImage.jpg" region="Image" />
20:         <text src = "SecondText.txt" region="text" />
21:       </par>
22:       <par dur = "4s">
23:         <img src = "ThirdImage.jpg" region="Image"/>
24:         <text src = "ThirdText.txt" region="text" />
25:       </par>
26:     </seq>
27:   </par>
28: </body>
29: </smil>
```

FIG.48

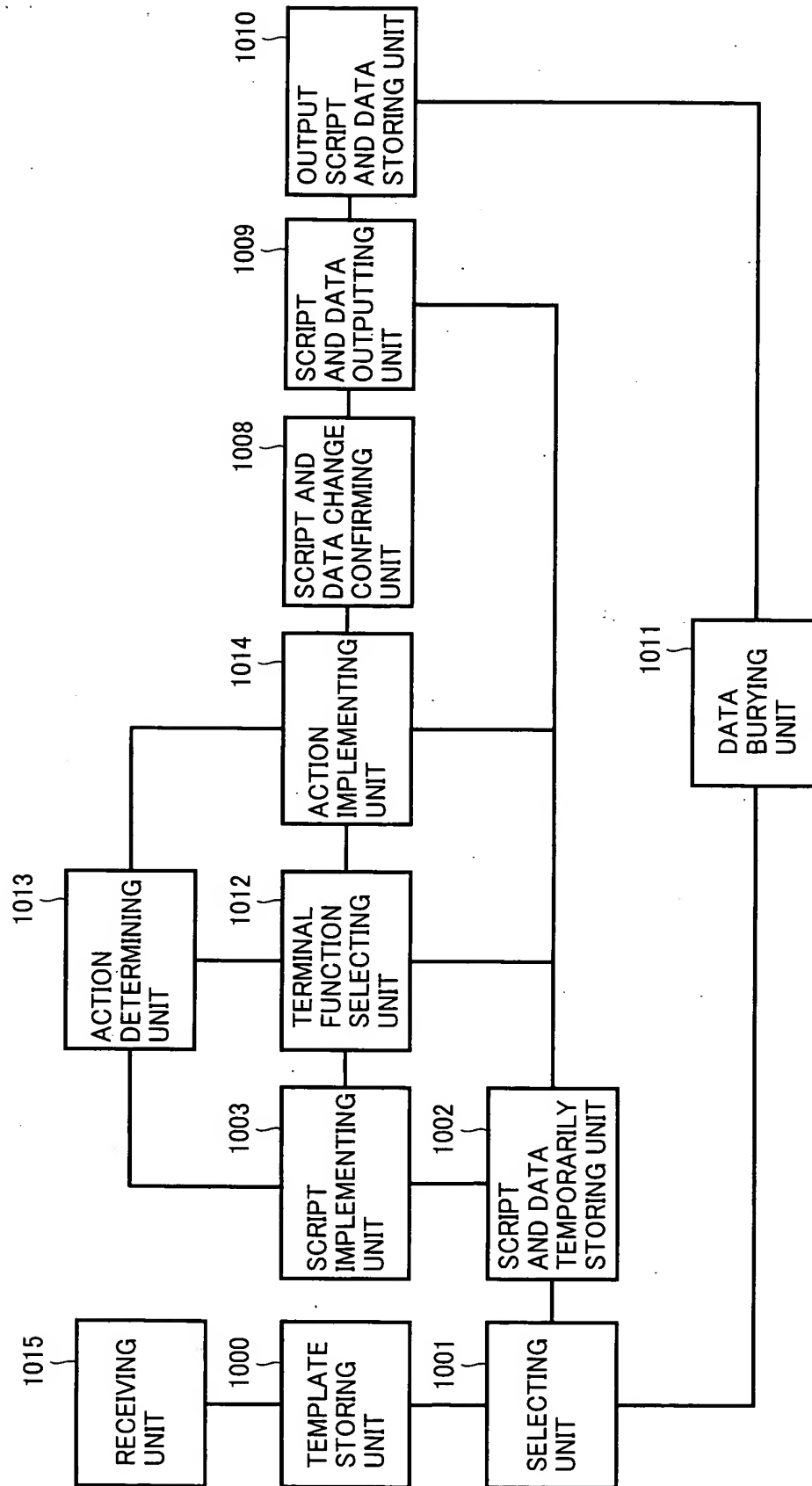


FIG.49

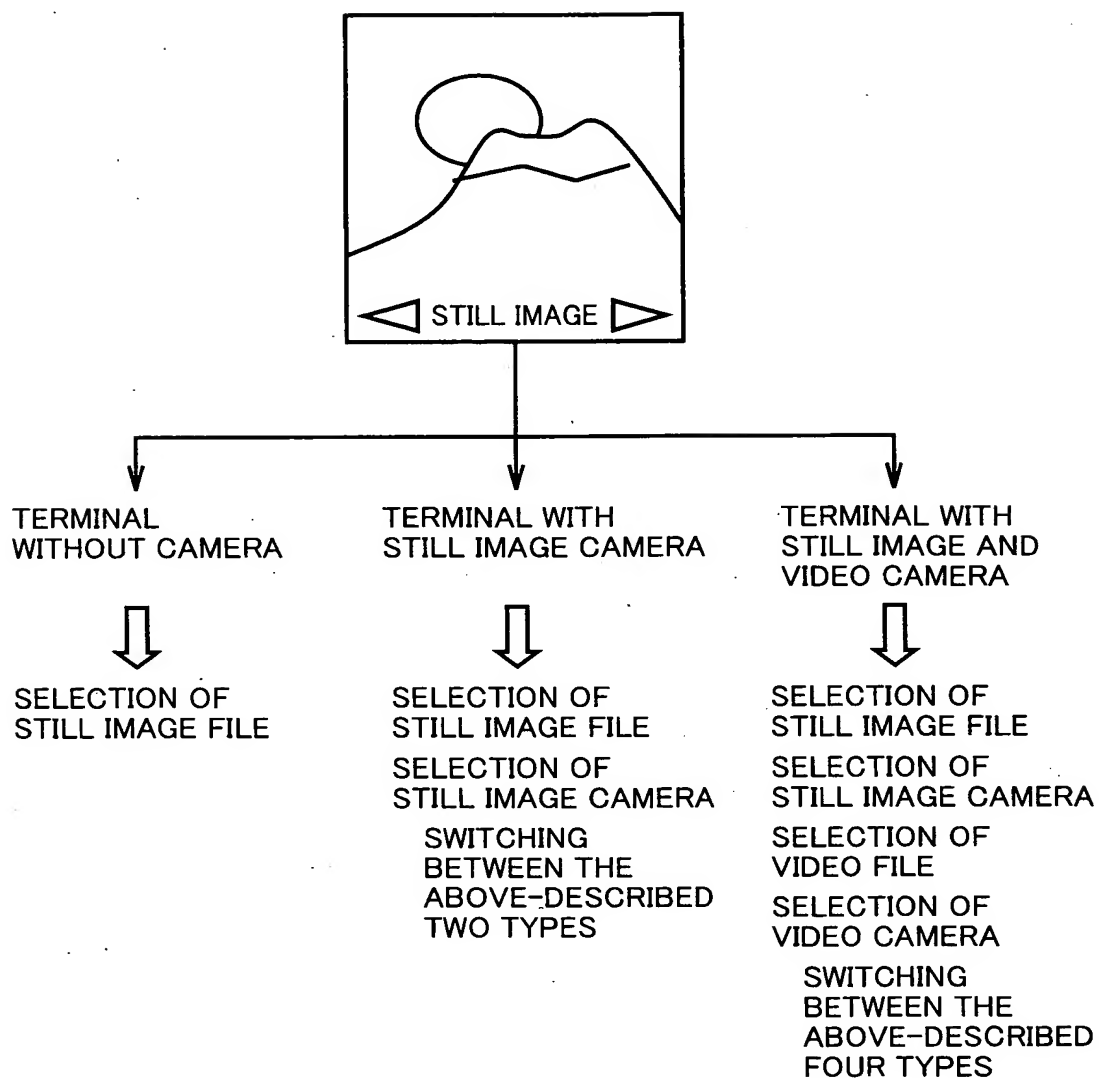


FIG.50

```
1:<smil>
2: <head>
3:   <meta name="title" content="navigation" />
4:   <meta name="author" content="Okure" />
5:   <meta name="role" content="template" />
6:   <layout>
7:     <root-layout width="352" height="144"/>
8:     <region id="Image" width="176" height="120" left="0" top="0" />
9:     <region id="Text" width="176" height="120" left="176" top="0"/>
10:    <region id="foot" width="352" height="24" left="0" top="121" />
11:  </layout>
12:  <action id="act_movie" type="replace" dest="plugin://movie" region="Image" />
13:  <action id="act_image" type="insert" dest="plugin://camera" region="Image" />
14:  <action id="act_text" type="insert" dest="plugin://textedit" region="Text" />
15:  <action id="act_speech" type="insert" dest="plugin://speech_coding" />
16: </head>
```

FIG.51A

SCENE 1

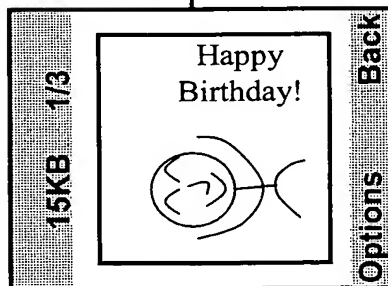


FIG.51B

SCENE 2

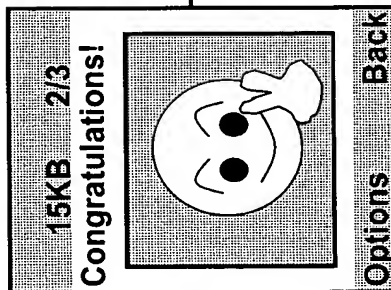


FIG.51C

SCENE 3

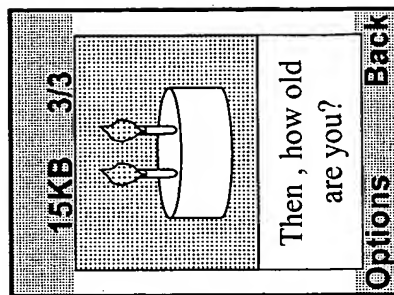


FIG.51D

SWITCHING OF PREVIEW MODE

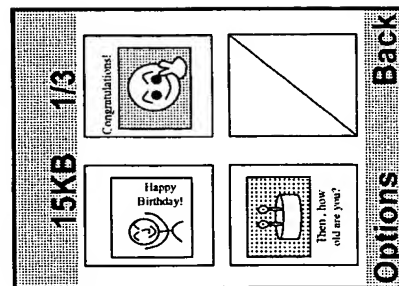


FIG. 52

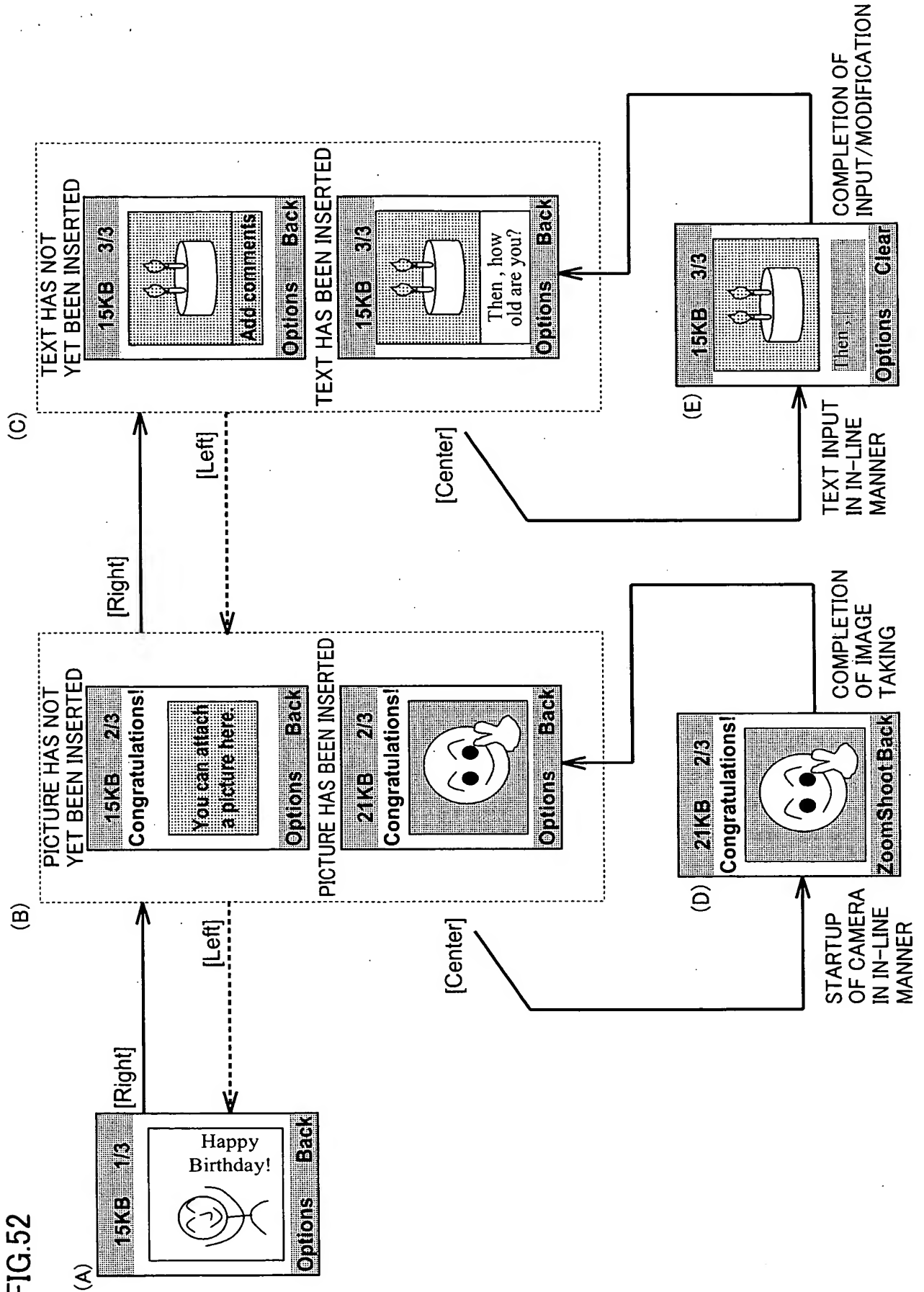


FIG.53

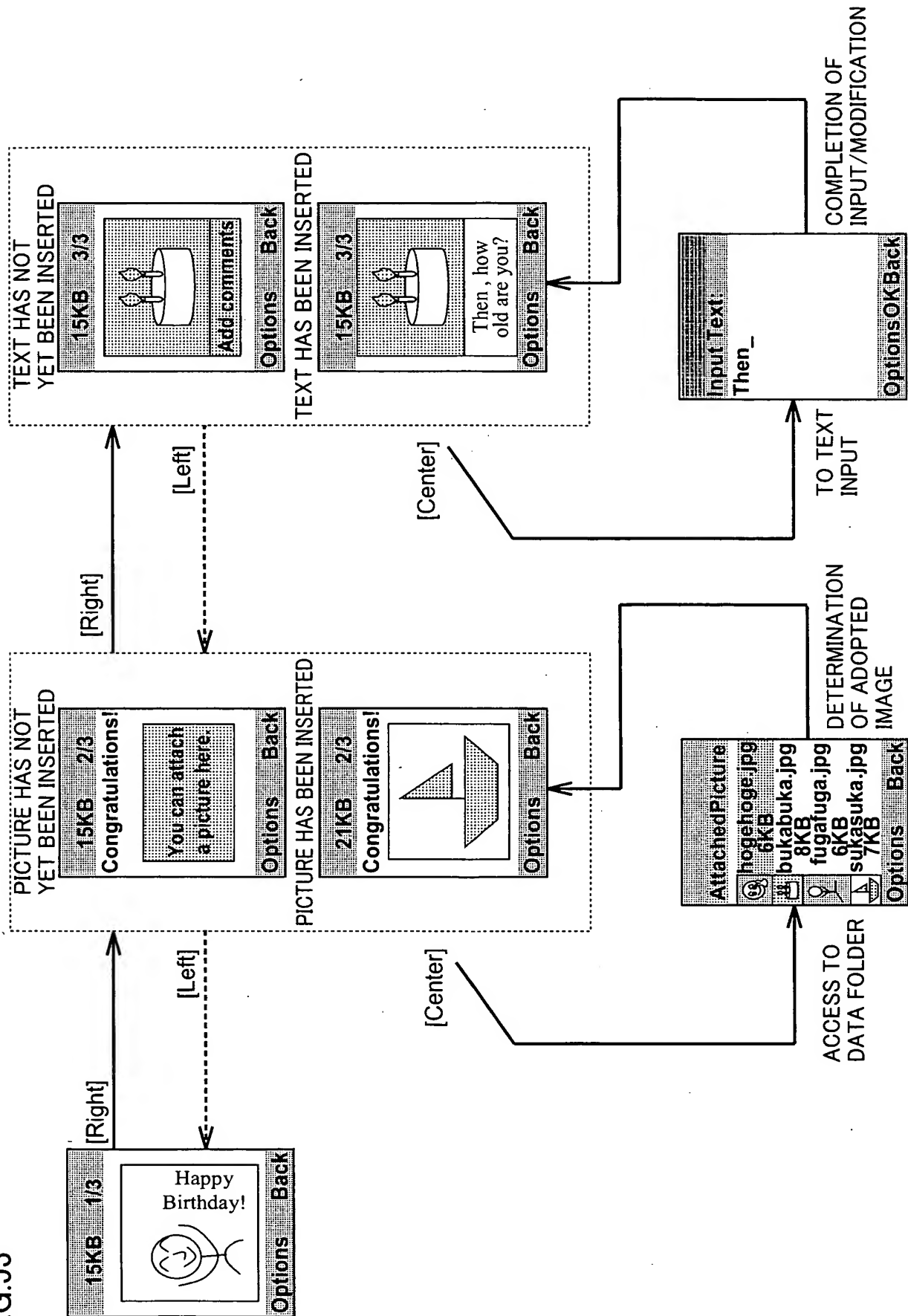


FIG.54A

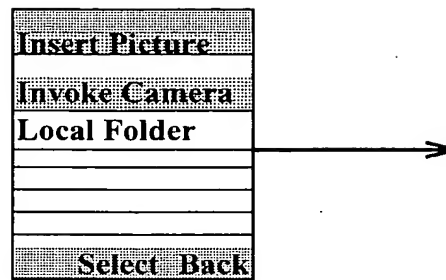


FIG.54B

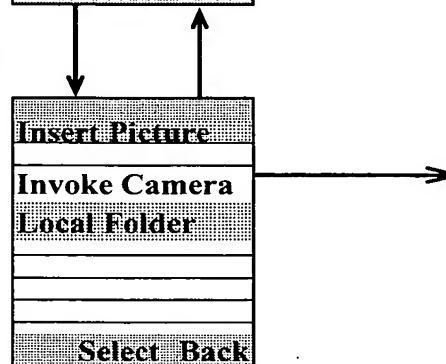


FIG.55

TRANSMITTED MESSAGES	TEMPLATES
1221	CONSIDERABLE AMOUNT OF FREE TIME
1222	THIS TASTES GOOD!
1223	CONSIDERABLE AMOUNT OF FREE TIME

FIG.56A

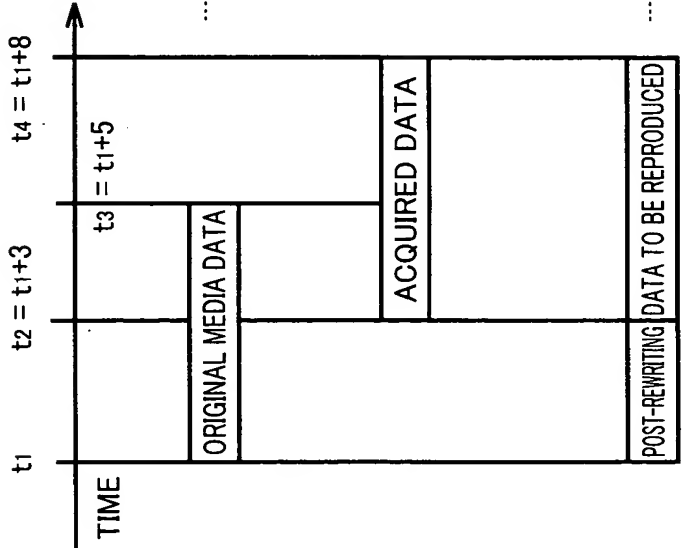


FIG.56B

FIG.56B shows the original script. The script is enclosed in a box and contains the following XML-like code:

```
<!-- (PIECES OF) ORIGINAL SCRIPT -->
<seq>
  <par = "5s">
    <video src="ORIGINAL MEDIA DATA" region = "Image">
  </par>
</seq>
```

FIG.56C

FIG.56C shows the script after rewriting. The script is enclosed in a box and contains the following XML-like code:

```
<!-- SCRIPT THAT SHOWS THE DESCRIPTIONS OF THE ABOVE-DESCRIBED PIECES AFTER REWRITING. -->
<seq>
  <par = "3s">
    <video src="ORIGINAL MEDIA DATA" region = "Image">
  </par>
</seq>
<seq>
  <par = "5s">
    <video src="ACQUIRED DATA" region = "Image">
  </par>
</seq>
```

FIG.57A

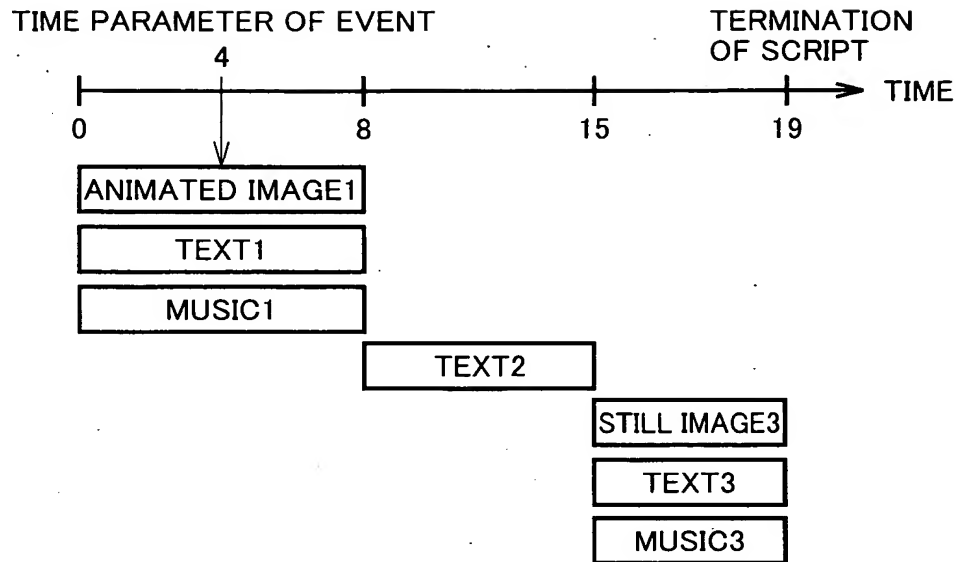


FIG.57B

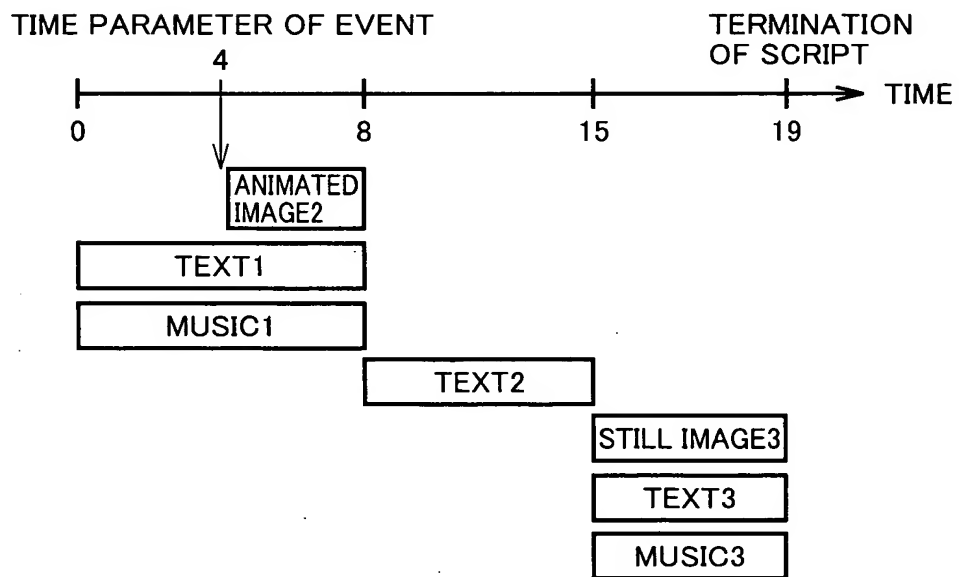


FIG.58

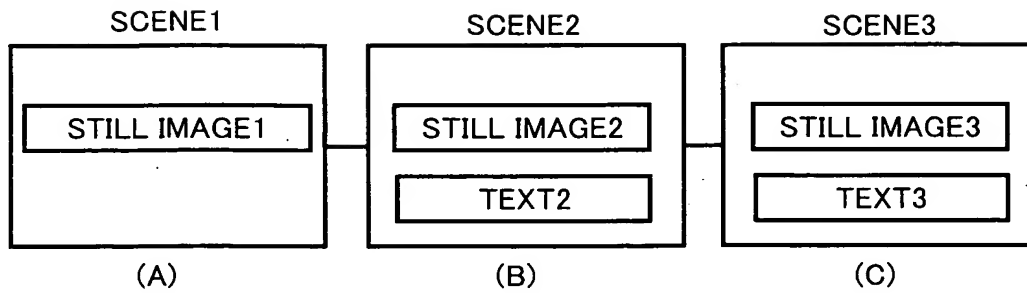


FIG.59

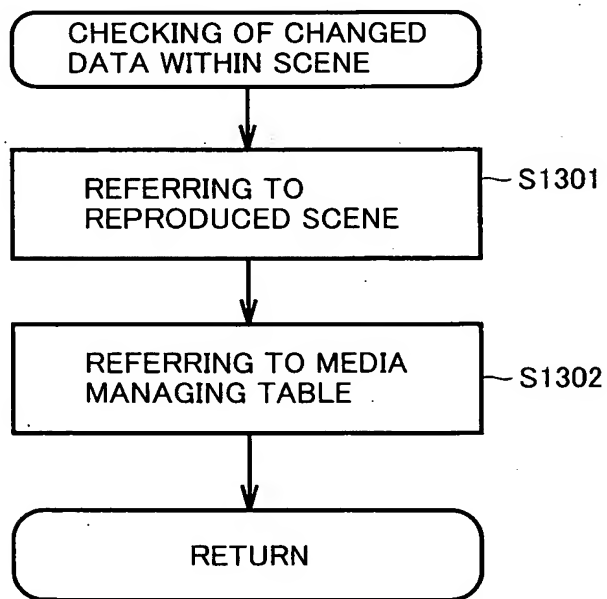


FIG.60

APPLICATION	MEDIA TYPE
IMAGE TAKING	STILL IMAGE, ANIMATED IMAGE
SOUND DATA RECORDING	SOUND
FILE ACQUISITION	STILL IMAGE, ANIMATED IMAGE, TEXT

FIG.61

```
17: <body>
18:   <seq>
19:     <par dur = "8s">
20:       <img src = "FirstImage.jpg" region="Image" />
21:     </par>
22:     <par dur = "7s">
23:       <img src = "SecondImage.jpg" region="Image" />
24:       <text src = "SecondText.txt" region="Text" />
25:       <event ref="act_image" src="UI" type="select" desc="CAMERA STARTUP"/>
26:     </par>
27:     <par dur = "4s">
28:       <img src = "ThirdImage.jpg" region="Image" />
29:       <text src = "ThirdText.txt" region="Text" />
30:       <event ref="act_text" src="UI" type="select" desc="TEXT INPUT"/>
31:     </par>
32:   </seq>
33: </body>
34:</smil>
```

FIG.62

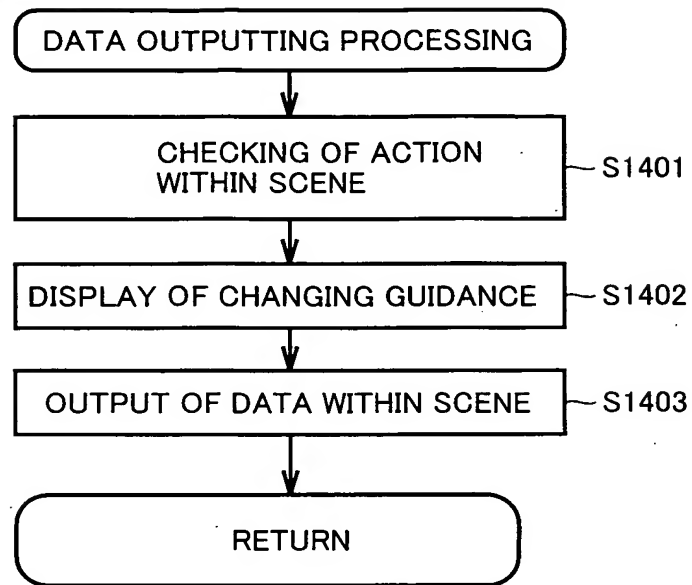


FIG.63

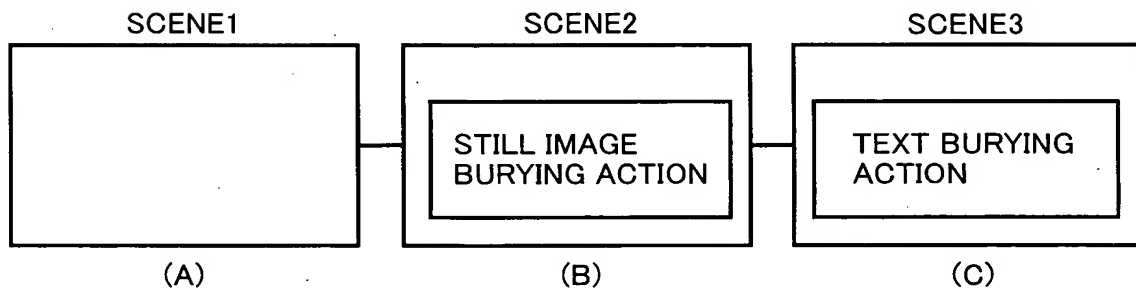


FIG.64

USER CHANGED DATA	APPLICATION	INPUTTED EVENT
STILL IMAGE2	IMAGE ACQUISITION	F1KEY
	FILE ACQUISITION	F2KEY
TEXT2	FILE ACQUISITION	selectKEY

FIG.65

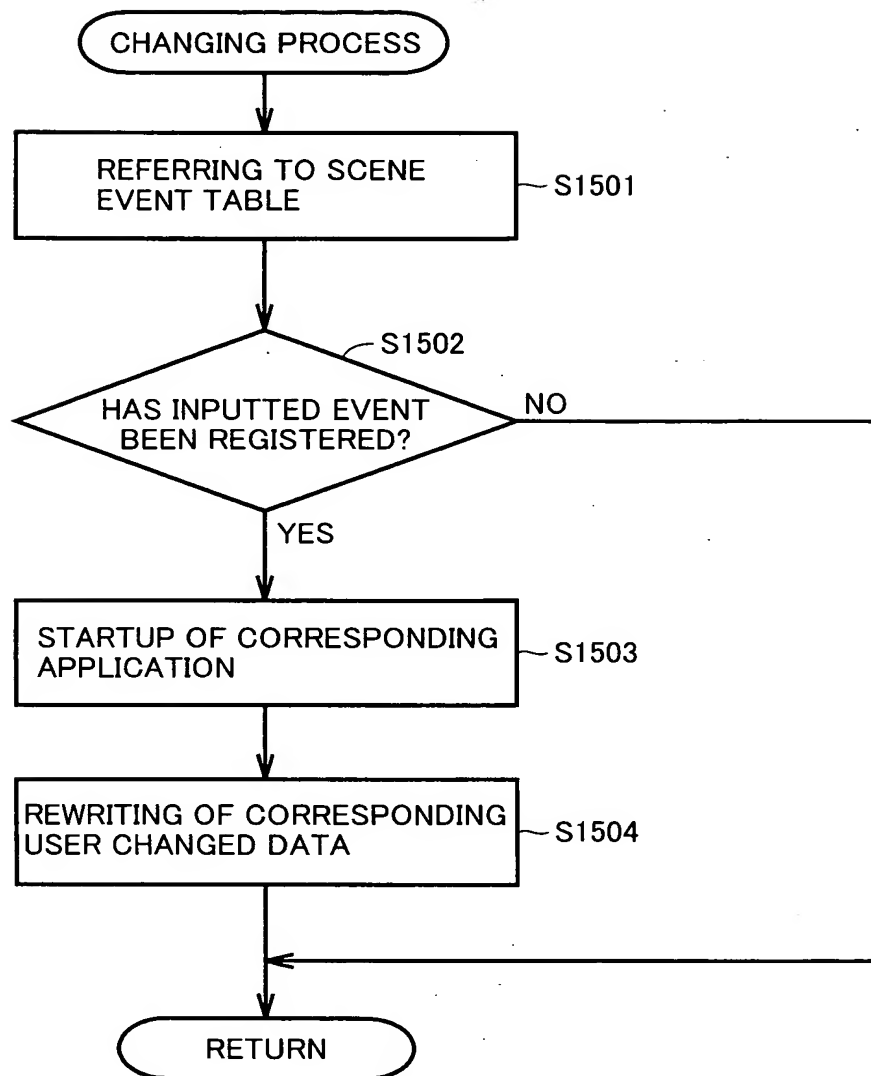


FIG.66

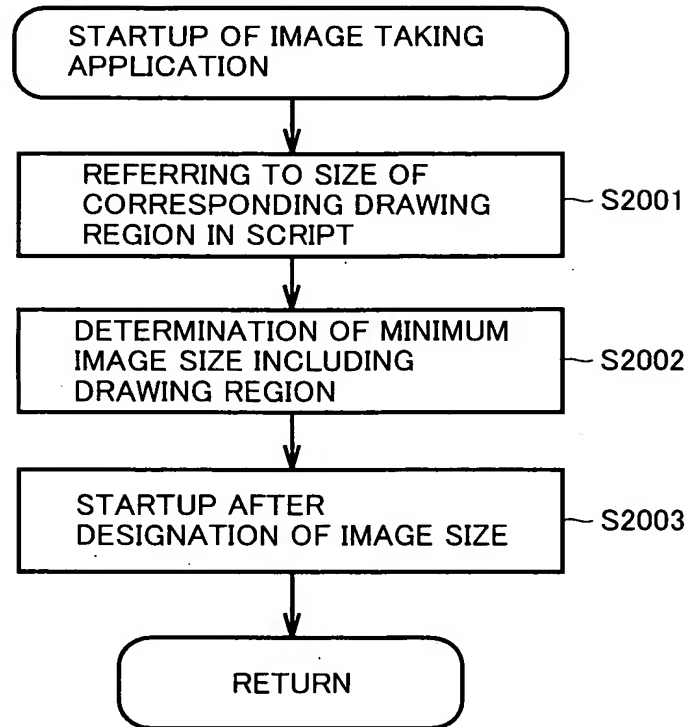


FIG.67

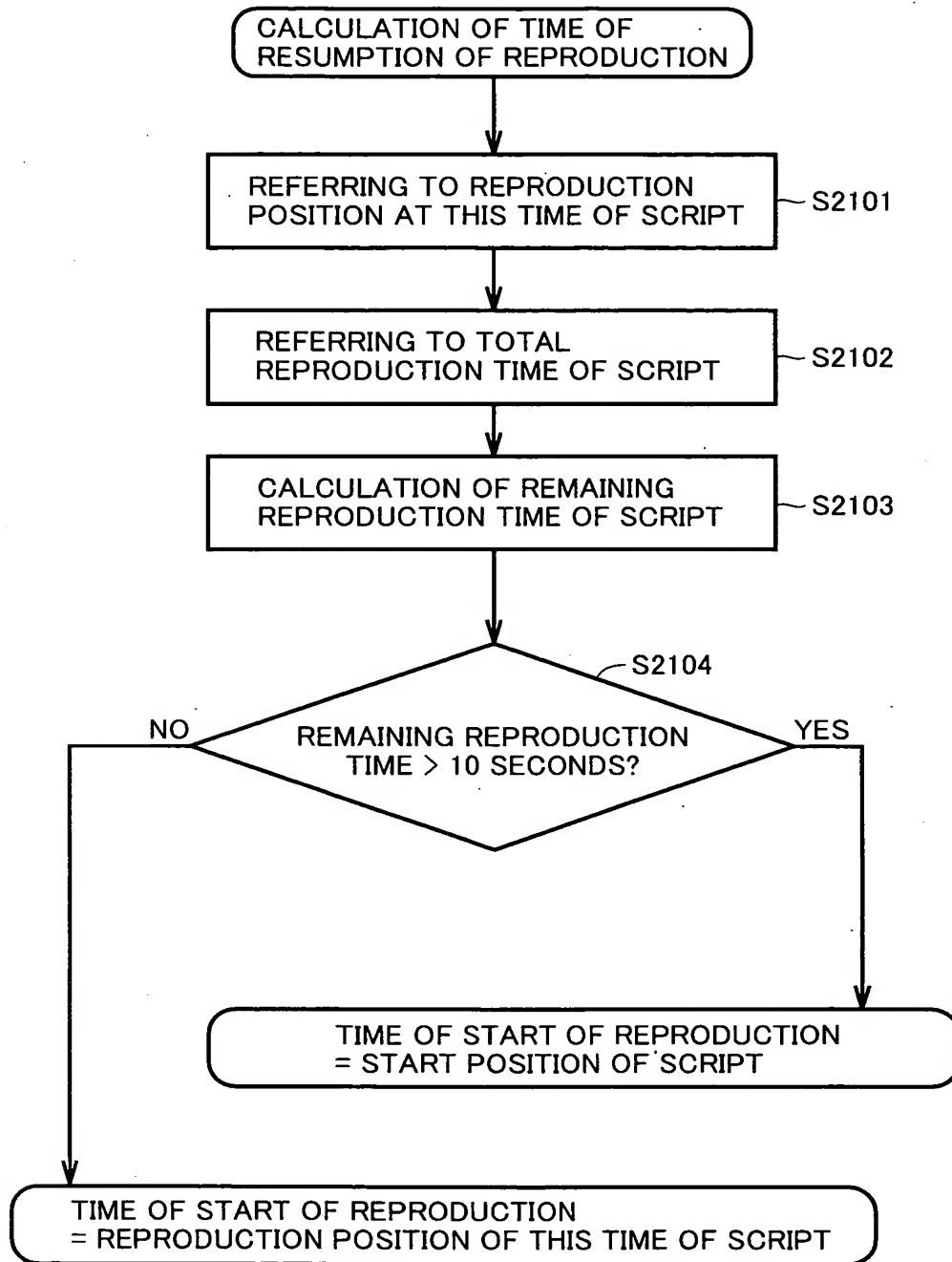


FIG.68

```
1:<smil>
2: <head>
3:   <meta name="title" content="navigation" />
4:   <meta name="readOnly" content="yes" />
5:   <meta name="role" content="template" />
6:   <layout>
7:     <root-layout width="352" height="144" />
8:     <region id="Image" width="176" height="120" left="0" top="0" />
9:     <region id="Text" width="176" height="120" left="176" top="0" />
10:    <region id="foot" width="352" height="24" left="0" top="121" />
11:  </layout>
12:  <action id="act_movie" type="replace" dest="plugin://movie" region="Image" />
13:  <action id="act_image" type="insert" dest="plugin://camera" region="Image" />
14:  <action id="act_text" type="insert" dest="plugin://textedit" region="Text" />
15:  <action id="act_speech" type="insert" dest="plugin://speech_coding" />
16: </head>
```

FIG.69

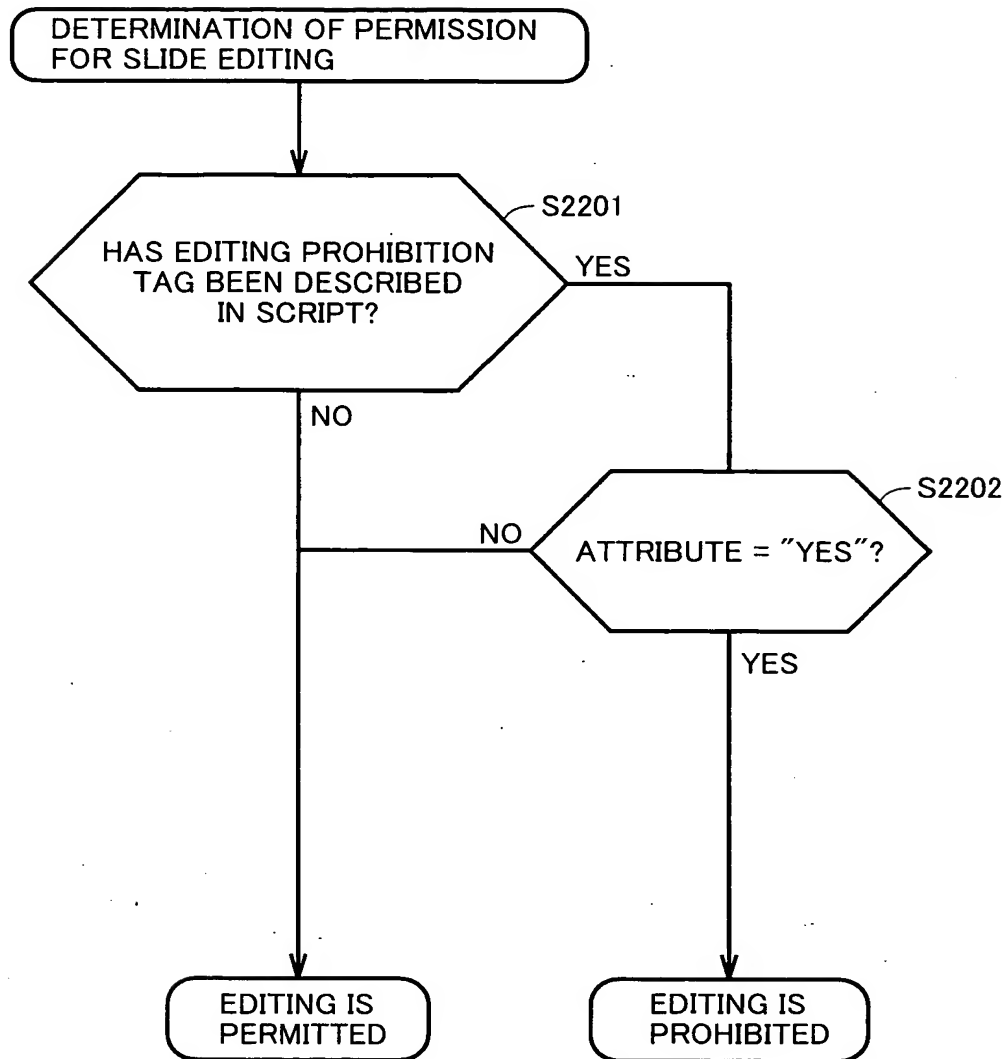


FIG.70

```

1:<smil>
2:<head>
3: <layout>
4:   <root-layout width="240" height="260" />
5:   <region id="image" top="20" left="20" width="200" height="200" />
6:   <region id="text" top="220" left="10" width="240" height="20" />
7: </layout>
8:</head>
9:<body>
10:  <par dur="2s">
11:    
12:    <text src="top.txt" region="text" />
13:  </par>
14:  <par dur="6s">
15:    
16:    <audio src="bgm.amr" />
17:    <text src="message.txt" region="text" />
18:  </par>
19:</body>
20:</smil>

```

FIG.71

```

1:<html>
2: <body>
3:   <form action="http://localhost/mmpoc" method="post">
4:     <label>SELECT PHOTO
5:       <input name="image.jpg" type="file" accept="image/*" />
6:     </label>
7:     <label>ENTER BIRTHDAY MESSAGE
8:       <input name="message.txt" type="text" />
9:     </label>
10:    <input type="submit" value="send" />
11:  </form>
12:</body>
13:</html>

```

FIG. 72A

SELECT PHOTO

 Browse...
 ENTER BIRTHDAY
 MESSAGE

 send

FIG. 72B

SELECT PHOTO

 Browse...
 ENTER BIRTHDAY
 MESSAGE

 send

USER INPUT

PRESSING DOWN 'send'

FIG. 72C

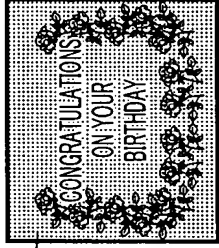
top.jpg

 top.txt

FIG. 72D

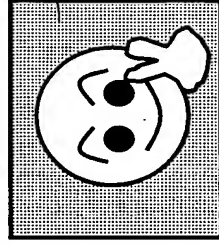
image.jpg

 message.txt

FIG.73

```
1:<?xml version="1.0" encoding="UTF-8"?>
2:<mmstemplate xmlns=http://www.foo.com/2003/MMSTemplate ...>
3:  <head>
4:    <title>Postcard Example</title>
5:  </head>
6:  <composition>
7:    <template src="http://www.example.com/postcard-comp.htm"/>
8:  </composition>
9:  <presentation>
10:    <template src="http://www.example.com/postcard-rend.smi"/>
12:  </presentation>
13:</mmstemplate>
```


FIG.74

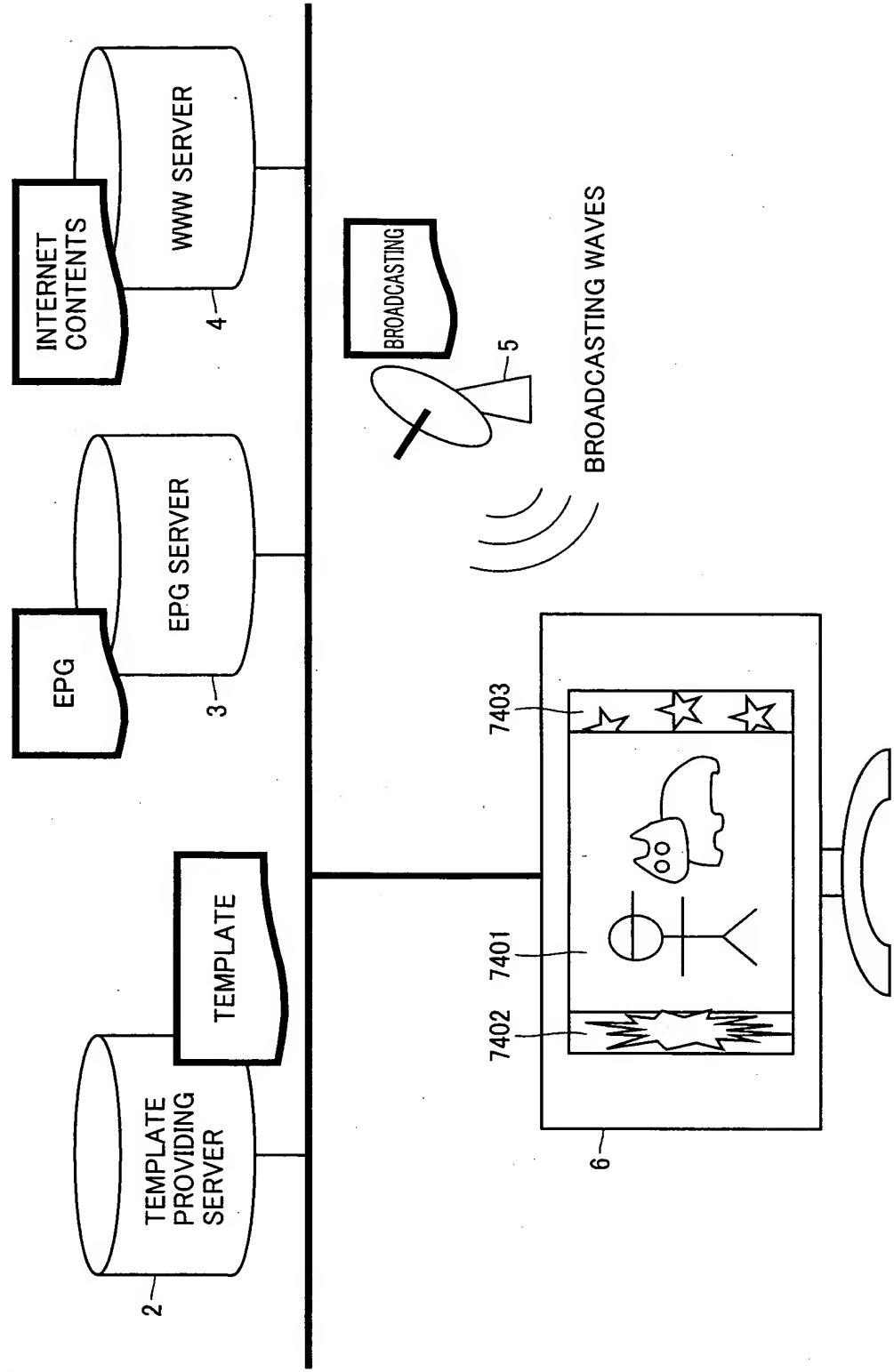


FIG.75

```
1:<?xml version="1.0" encoding="Shift_JIS"?>
2:<smil>

3:<head>
4: <layout>
5:   <root-layout backgroundColor="black"/>
6:   <region id="main" top="0%" left="10%" width="80%" height="100%" z-index="1"/>
7:   <region id="right" right="0%" top="0%" width="10%" height="100%" z-index="0"/>
8:   <region id="left" left="0%" top="0%" width="10%" height="100%" z-index="0"/>
9: </layout>
10:</head>

11:<body>
12: <par repeatCount="indefinite">
13:   <video id="tvcontents" src="data:dummy" region="main" />
14:   
15:   
16: </par>
17:</body>

18:</smil>
```

FIG.76

```

1:<?xml version="1.0" encoding="Shift_JIS"?>
2:<psd version="1.0">
3:  <channel>SMIL CHANNEL</channel>
4:  <day value="2003-09-29">
5:    <embedid value="tvcontents" />

6:    <program>
7:      <schedule>
8:        <starttime value="0:00"/>
9:        <endtime value="2:00"/>
10:      </schedule>
11:      <title>ANIMATION</title>
12:      <ref href="ch_4"/>
13:    </program>

14:    <program>
15:      <schedule>
16:        <starttime value="2:00"/>
17:        <endtime value="4:00"/>
18:      </schedule>
19:      <title>SHAARP PRODUCT INFORMATION</title>
20:      <ref ref="www.example.com/product.smil"/>
21:    </program>

...
(OMITTED: DESCRIPTION AT AND AFTER 4:00 CONTINUES)

...
: </day>
: <day value="2003-09-30">
: ...
: </day>
: ...
:</psd>

```

FIG.77

```
1:<?xml version="1.0" encoding="Shift_JIS"?>
2:<mmstemplate>
3:  <head>
4:    <title>SMIL CHANNEL</title>
5:  </head>
6:  <composition>
7:    <template src="smil.psd" />
8:  </composition>
9:  <presentation>
10:    <template src="tvlayout.smil" />
11:  </presentation>
12:</mmstemplate>
```

FIG. 78

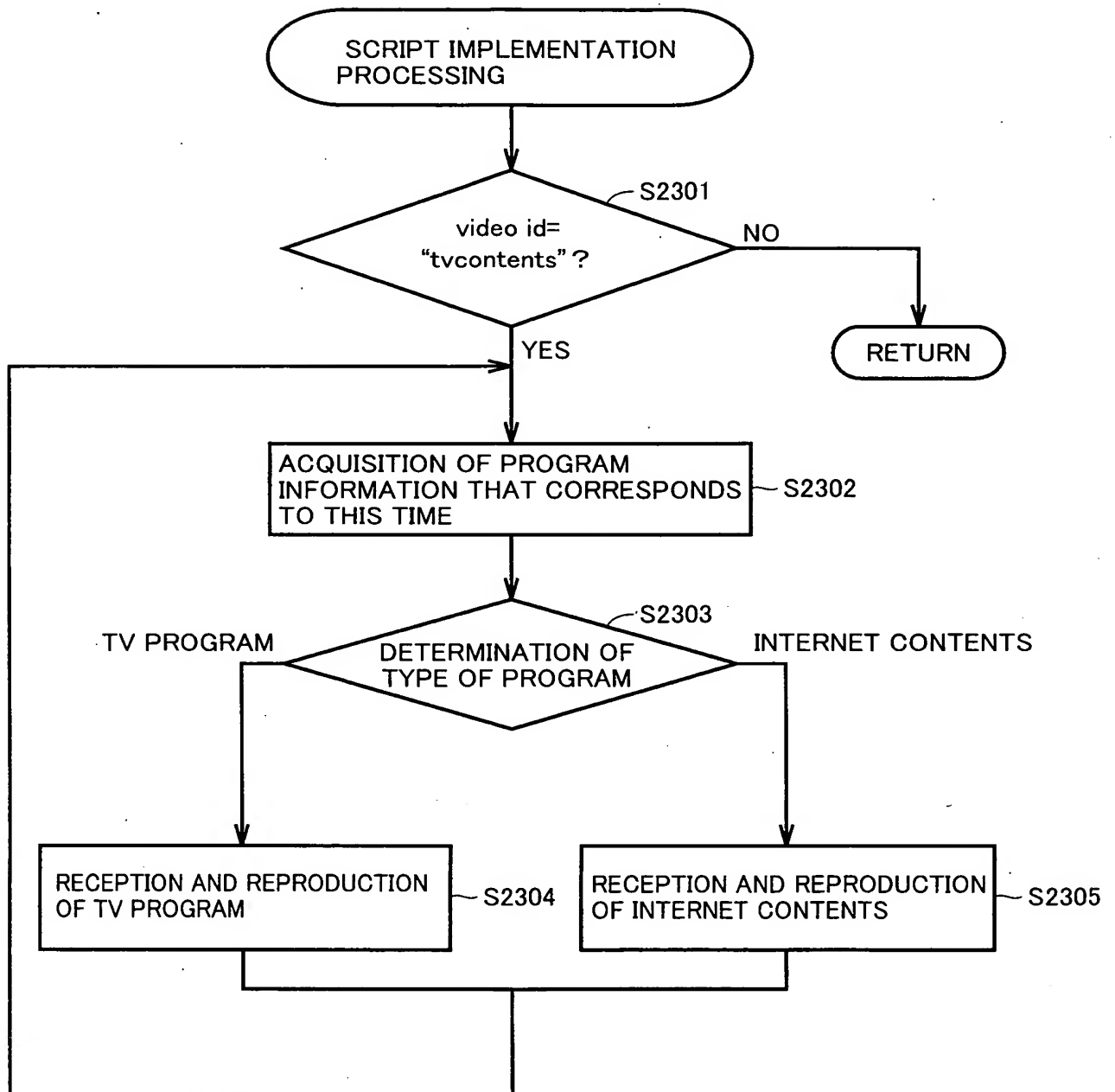


FIG.79

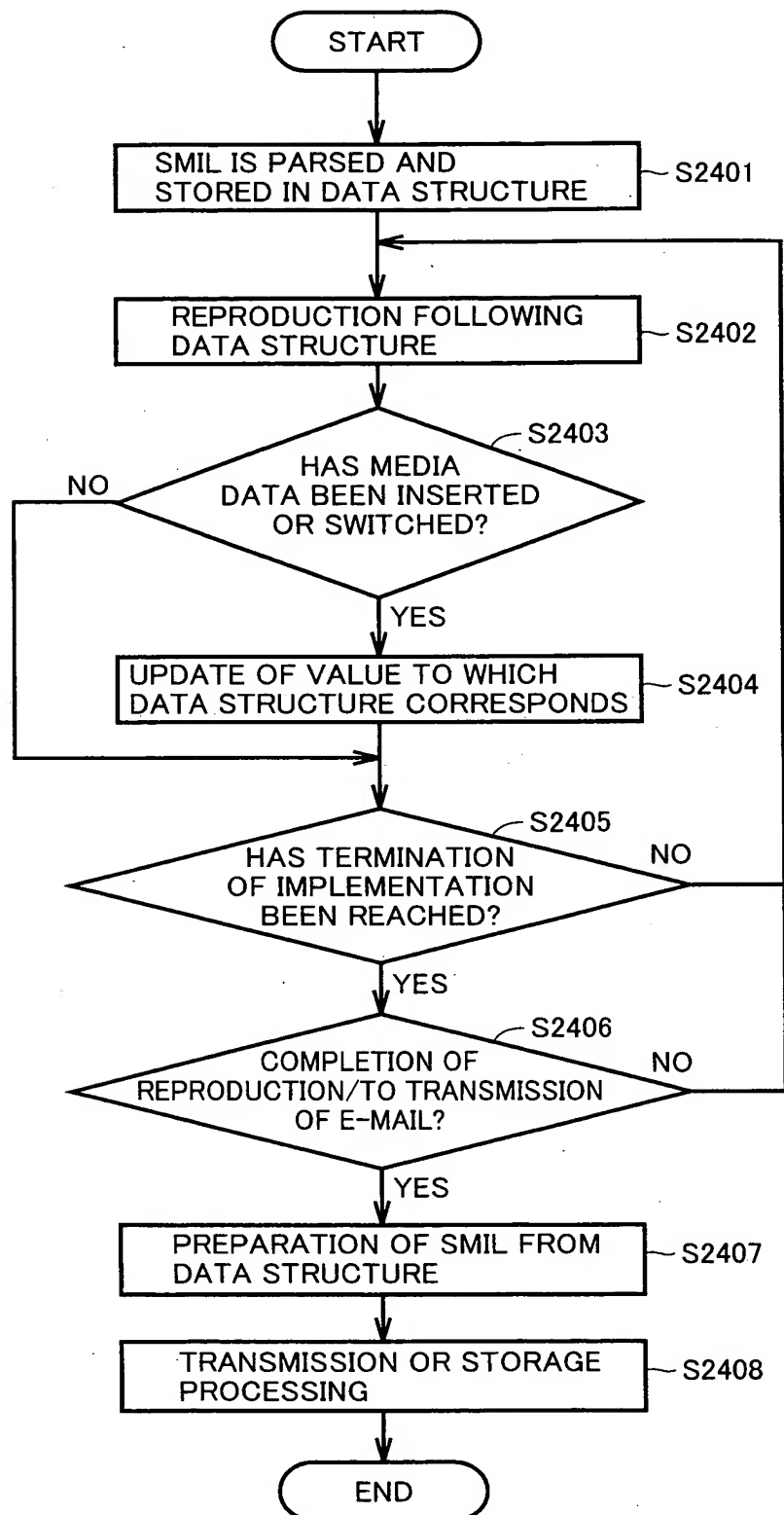


FIG.80A

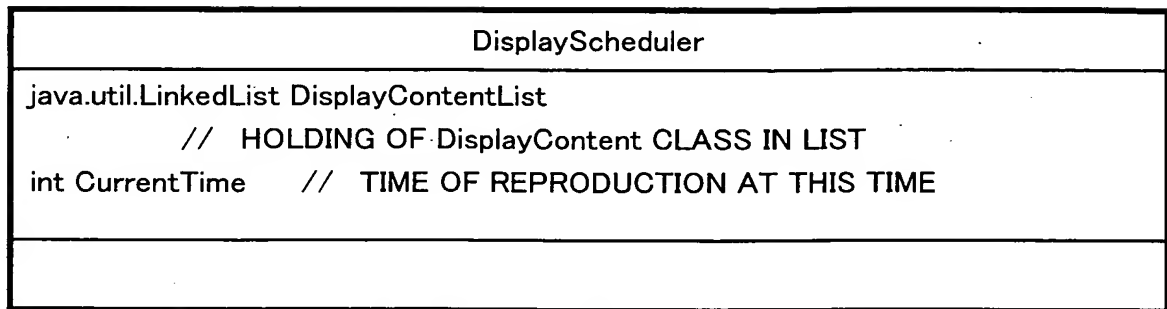


FIG.80B

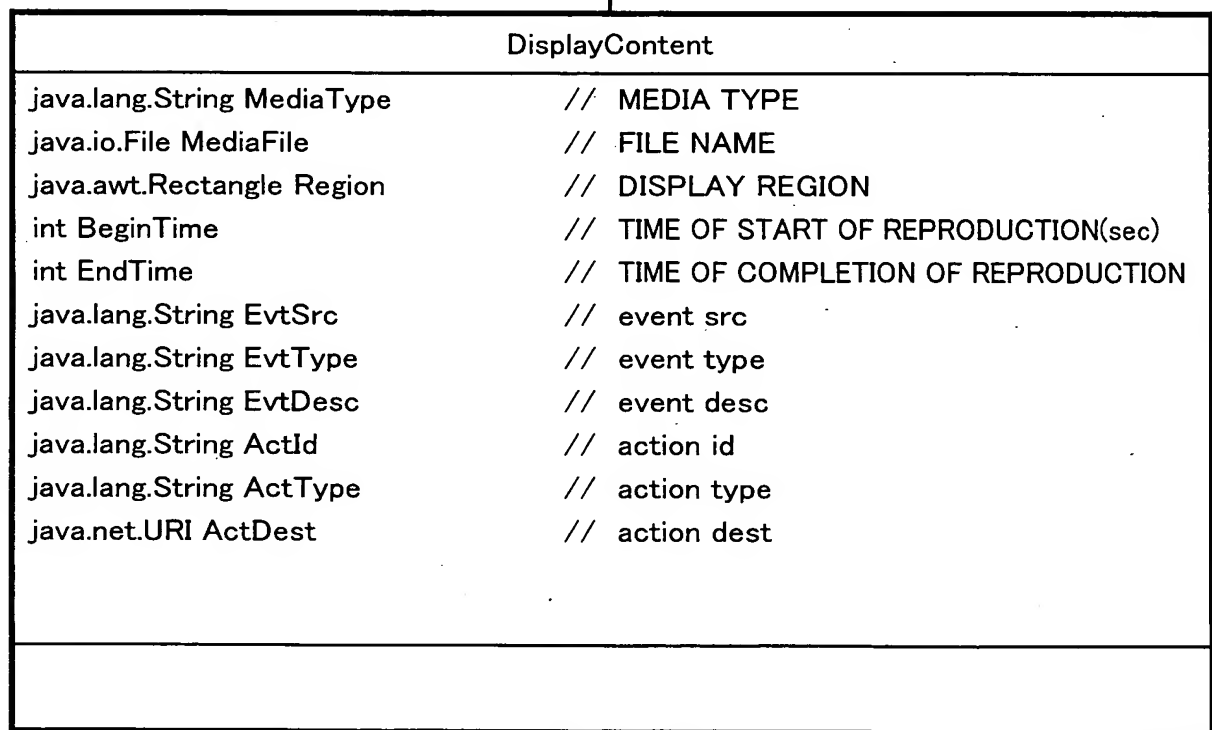


FIG.81

ATTRIBUTES	1	2	3	4	5	6	7	8	9	10	11
Media Type	video	text	audio	text	img	text	audio	img	text	audio	text
Media File	FirstImage.mpg	FirstText.txt	FirstSound.smf	SecondText.txt				ThirdImage.jpg	ThirdText.txt	ThirdSound.smf	Bottom Text.txt
Media Region (x,y,w,h)	0,	176,	0,	0,	0,	176,	0,	0,	176,	0,	0,
	0,	0,	0,	121,	0,	0,	0,	0,	0,	0,	121,
	176,	176,	0,	352,	176,	176,	0,	176,	176,	0,	352,
	120	120	0	24	120	120	0	120	120	0	24
Begin Time	0	0	0	8	8	8	8	15	15	15	4
End Time	8	8	8	15	15	15	15	19	19	19	15
EvSrc	UI	-	-	-	UI	UI	timer	-	-	-	-
EvType	select	-	-	-	select	select	2s	-	-	-	-
EvDesc	MOVIE STARTUP	-	-	-	CAMERA STARTUP	TEXT INPUT	SOUND RECORDING	-	-	-	-
ActId	act_movie	-	-	-	act_image	act_text	act_speech	-	-	-	-
ActType	replace	-	-	-	insert	insert	insert	-	-	-	-
ActDest	plugin://movie	-	-	-	plugin://camera	plugin://textedit	plugin://speech_config	-	-	-	-

FIG.82

ATTRIBUTES	1	2	3	4	5	6	7	8	9	10	11
Media Type	video	text	audio	text	img	text	audio	img.	text	audio	text
Media File	FirstImage.mpg	FirstText.txt	FirstSound.smf	SecondText.txt	CameraPict01.jpg	EditText01.txt	Voice01.amr	ThirdImage.jpg	ThirdText.txt	ThirdSound.smf	BottomText.txt
Media Region (x,y,w,h)	0,	176,	0,	0,	0,	176,	0,	0,	176,	0,	0,
	0,	0,	0,	121,	0,	0,	0,	0,	0,	0,	121,
	176,	176,	0,	352,	176,	176,	0,	176,	176,	0,	352,
	120	120	0	24	120	120	0	120	120	0	24
Begin Time	0	0	0	8	8	8	8	15	15	15	4
End Time	8	8	8	15	15	15	15	19	19	19	15
EvSrc	UI	-	-	-	UI	UI	timer	-	-	-	-
EvType	select	-	-	-	select	select	2s	-	-	-	-
EvDesc	MOVIE STARTUP	-	-	-	CAMERA STARTUP	TEXT INPUT	SOUND RECORDING	-	-	-	-
ActId	act_movie	-	-	-	act_image	act_text	act_speech	-	-	-	-
ActType	replace	-	-	-	insert	insert	insert	-	-	-	-
ActDest	plugin://movie	-	-	-	plugin://camera	plugin://textedit	plugin://speech_config	-	-	-	-

FIG.83

```

1: <smil>
2: <head>
3:   <meta name="title" content="navigation" />
4:   <meta name="author" content="Okure" />
5:   <meta name="role" content="template" />
6:   <layout>
7:     <root-layout width="352" height="144" />
8:     <region id="Image" width="176" height="120" left="0" top="0" />
9:     <region id="Text" width="176" height="120" left="176" top="0" />
10:    <region id="foot" width="352" height="24" left="0" top="121" />
11:  </layout>
12:  <action id="act_movie" type="replace" dest="plugin://movie" region=
                                "Image" />
13:  <action id="act_image" type="replace" dest="plugin://camera" region=
                                "Image" />
14:  <action id="act_text" type="replace" dest="plugin://textedit" region="Text" />
15:  <action id="act_speech" type="replace" dest="plugin://speech_config" />
16: </head>
17: <body>
18:   <par>
19:     <seq>
20:       <par dur = "8s">
21:         <video src = "FirstImage.mpg" region = "Image" />
22:         <text src = "FirstText.txt" region = "Text" />
23:         <audio src = "FirstSound.smf" />
24:         <event ref="act_movie" src="UI" type="select" desc="MOVIE STARTUP" />
25:       </par>
26:       <par dur = "7s">
27:         <text src = "SecondText.txt" region = "foot" />
28:         <img src = "CameraPict01.jpg" region = "Image" />
29:         <text src = "EditText01.txt" region = "Text" />
30:         <audio src = "Voice01.amr" />
31:         <event ref="act_image" src="UI" type="select" desc="CAMERA STARTUP" />
32:         <event ref="act_text" src="UI" type="select" desc="TEXT INPUT" />
33:         <event ref="act_speech" src="timer" type="2s" desc="SOUND RECORDING" />
34:       </par>
35:     </seq>
36:     <par dur = "4s">
37:       <img src = "ThirdImage.jpg" region = "Image" />
38:       <text src = "ThirdText.txt" region = "Text" />
39:       <audio src = "ThirdSound.smf" />
40:     </par>
41:   </body>
42: </smil>

```

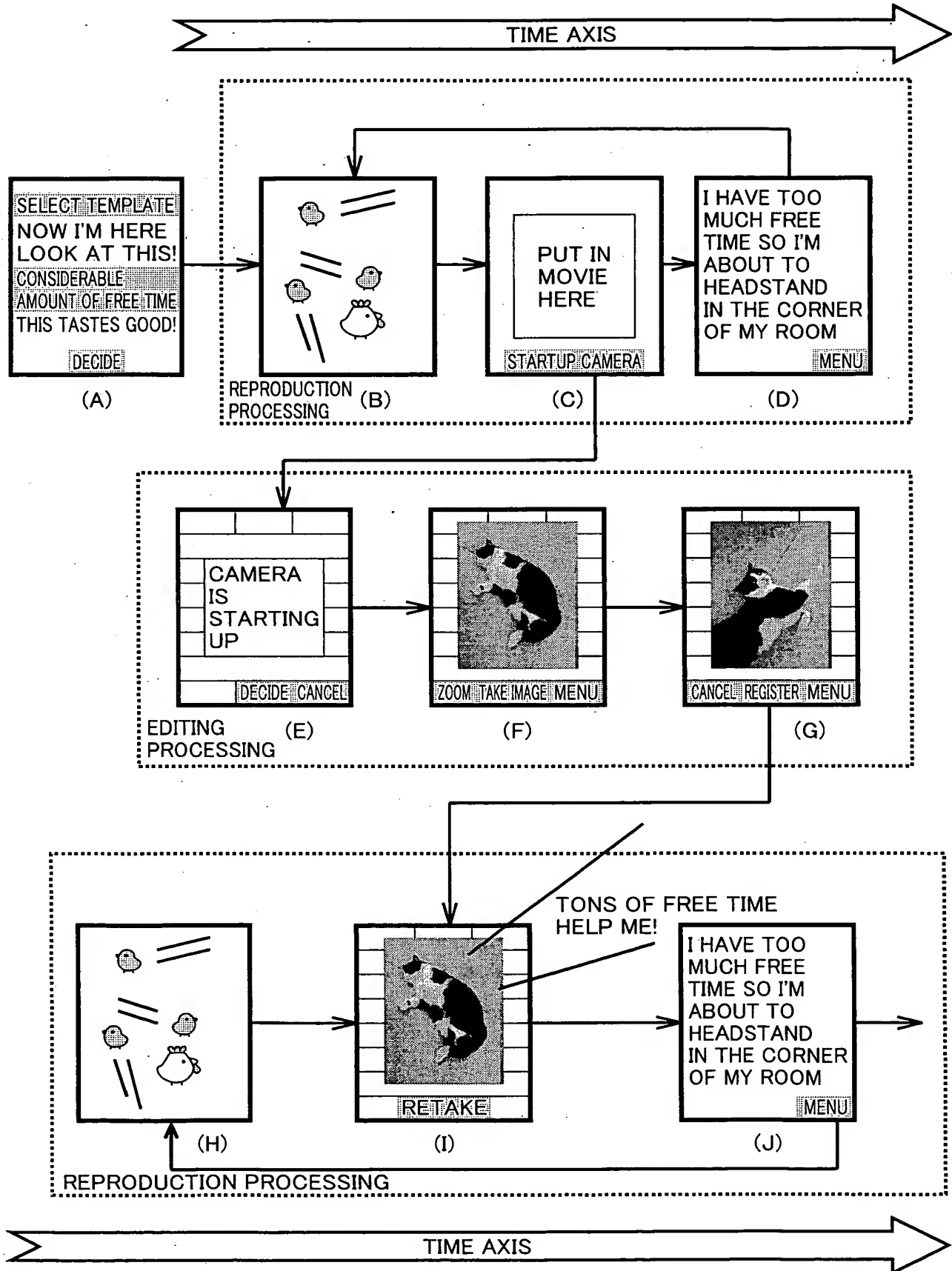
FIG.84

```

1: <smil>
2: <head>
3:   <meta name="title" content="navigation" />
4:   <meta name="author" content="Okure" />
5:   <meta name="role" content="template" />
6:   <layout>
7:     <root-layout width="352" height="144" />
8:     <region id="Image" width="176" height="120" left="0" top="0" />
9:     <region id="Text" width="176" height="120" left="176" top="0" />
10:    <region id="foot" width="352" height="24" left="0" top="121" />
11:  </layout>
12:
13:
14:
15:
16: </head>
17: <body>
18:   <par>
19:     <seq>
20:       <par dur = "8s">
21:         <video src = "FirstImage.mpg" region = "Image" />
22:         <text src = "FirstText.txt" region = "Text" />
23:         <audio src = "FirstSound.smf" />
24:
25:       </par>
26:       <par dur = "7s">
27:         <text src = "SecondText.txt" region = "foot" />
28:         <img src = "CameraPict01.jpg" region = "Image" />
29:         <text src = "EditText01.txt" region = "Text" />
30:         <audio src = "Voice01.amr" />
31:       </par>
32:       <par dur = "4s">
33:         <img src = "ThirdImage.jpg" region = "Image" />
34:         <text src = "ThirdText.txt" region = "Text" />
35:         <audio src = "ThirdSound.smf" />
36:       </par>
37:     </seq>
38:     <text src="BottomText.txt" region="foot" begin="4s" end="15s" />
39:   </par>
40: </body>
41: </smil>

```

FIG. 85



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